

**Celona, Michael J CIV NAVSUP WSS, M077**

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**From:** Celona, Michael J CIV NAVSUP WSS, M077  
**Sent:** Friday, January 30, 2015 13:34  
**To:** 'USS GRAVELY (agn@saltsmail.salts.navy.mil)'; 'Bolt, Brandon L. LS2 DDG 107'; 'Mobel, Pearlyn C. LS1 DDG 107'; 'Kekeh, Yao K. LSC DDG 107'; 'Baker, Jonathan E. LTJG (DCA) DDG 107'  
**Cc:** 'COMNAVAIRPAC'; 'COMNAVAIRLANT (aor@saltsmail.salts.navy.mil)'; 'COMNAVSURFLANT'; 'COMNAVSURFPAC'; Bottinelli, Jehdia CIV NAVSUP GLS; Houde, Jennifer S CIV NAVSUP WSS, M077; Hammerer, Mary Q CIV NAVAIR 6.7.1.4; Celona, Michael J CIV NAVSUP WSS, M077; Ichniowski, Matthew CIV nawcad, 6.0; Wilson, James N CIV NAVSUP FLC Norfolk, 401.2; Armacost, Andrew H CIV MSC, N46; Siebor, Adam CIV NAVSUP FLC Norfolk, 401.2; Kurylo, Timothy S CIV NSWCCD Philadelphia, 6350; Mukherjee, Sandi CIV NAVSUP WSS, M077; Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350; 'CRAIG COOLEY (Craig.Cooley@supshipba.navy.mil)' (Craig.Cooley@supshipba.navy.mil)  
**Subject:** USS GRAVELY: SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR) #5224 (FINAL ANSWER)

**From:** Commander, NAVSUP Weapon Systems Support, Mechanicsburg (NWSS-M), Pa., Code N242  
**To:** Commander, USS Gravelly (DDG-107)

**Copy to:** Commander, Naval Surface Force, U.S. Atlantic Fleet (COMNAVSURFLANT), Code N411B  
Commander, Naval Surface Force, U.S. Pacific Fleet (COMNAVSURFPAC), Code N931  
Commander, Naval Air Force, U.S. Atlantic Fleet (COMNAVAIRLANT), Code N412A  
Commander, Naval Air Force, U.S. Pacific Fleet (COMNAVAIRPAC), Code 80

**Subj:** FORWARDING OF SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR)

**Attn:** LS2 (SW/IDW/AW) Bolt

**Ref:** (a) NAVSUP PUB P-485 SFR PROCESS  
(b) NWSS-M Point Of Contact (POC): Mike Celona, Code N242, Tel: (717) 605-8319 or DSN: 430-8319. Fax: 717-605-3480 or DSN: 430-3480  
(c) (SFR #5224) INTEK-CHTC, (Part# CHTC-CA-6), NSN: 6850-01-574-8506  
(d) POC for the USS Gravelly (DDG-107): LS2 (SW/IDW/AW) Bolt  
(e) NSWCCD-SSES POC, Frank Iaconianni, Tel: (215) 897-7494, DSN: 430-7494

1. Per ref (a), ref (b) received ref (c) SFR from ref (d). Each SFR is reviewed and is assigned an SFR number by ref (b) and processed through the Hardware Systems Command (HSC) Technical Authorities (TA) ref (b) and (e). The following information provides the current status of your SFR.

2. Concerning ref (c) SFR# 5224 per ref (e):

USS Gravelly (DDG-107)

Mike,

SFR: 5224: The SFR requested material (NSN 6850-01-574-8506; Scale Prevention Compound; P/N: Intek CHTC-CA-6) is required onboard per MIP 6641/002, MRC F7NK, Periodicity D-3, which is the application requested per the SFR. The NSN is currently listed on the DDG Type SHML as Restricted to the requested application. Therefore no changes to the SHML are required.

V/R,

Frank J. Iaconianni, Chemist  
NAVSEA Warfare Center Code 635  
Hazardous Materials Control and Management  
215-897-7494  
DSN: 443-7494  
frank.iaconianni@navy.mil

Therefore, NSN 6850-01-574-8506 IS APPROVED for use and has been updated in the Master SHML and the DDG T-SHML with an AOB code of "R" (RESTRICTED FOR USE ONLY IAW MIP 6641/002, MRC F7NK, PERIODICITY D-3).

3. Our point of contact in the Asset Protection-Pollution Prevention and PHS&T Division is Mr. Mike Celona, Code N242, DSN: 430-8319 or (717) 605-8319. Fax: DSN 430-3480 or (717) 605-3480.

**Celona, Michael J CIV NAVSUP WSS, M077**

---

**From:** Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350  
**Sent:** Friday, January 30, 2015 11:15  
**To:** Celona, Michael J CIV NAVSUP WSS, M077  
**Cc:** Shull-Archer, Karen E CIV NSWCCD Philadelphia, Code 635; Lora-Guzman, Isaac CIV NSWCCD Philadelphia, 6310  
**Subject:** SFR # 5224  
**Signed By:** frank.iaconianni@navy.mil

USS Gravelly (DDG-107)

Mike,

*good R*

SFR: 5224: The SFR requested material (NSN 6850-01-574-8506: Scale Prevention Compound; P/N: Intek CHTC-CA-6) is required onboard per MIP 6641/002, MRC F7NK, Periodicity D-3, which is the application requested per the SFR. The NSN is currently listed on the DDG Type SHML as Restricted to the requested application. Therefore no changes to the SHML are required.

V/R,

*S/RG/B  
DG/OT*

Frank J. Iaconianni, Chemist  
NAVSEA Warfare Center Code 635  
Hazardous Materials Control and Management  
215-897-7494  
DSN: 443-7494  
frank.iaconianni@navy.mil

**ORIGINATOR:**

NAVSUP WSS-MECHANICSBURG, PA, CODE N242, BUILDING 312, TEL: 717-605-8319, DSN: 430-8319  
 FAX: 717-605-3480, DSN: 430-3480

REC'D AT NAVSUP WSS: 1/26/2015 FPO#: AE09570 - 1221 UIC#: 23164 TYCOM: SURFLANT

<b>TO CODE:</b>	<b>RELEASE DATE:</b>	<b>INITIALS</b>	<b>SUBJECT:</b> SHIP HAZARDOUS MATERIAL LIST (SHML FEEDBACK REPORT (SFR))  SFR # 5224  <b>ATTACHED FROM (SHIP):</b> USS GRAVELY (DDG-107)  <b>PRODUCT NAME:</b> INTEK-CHTC  <b>DATE ON SFR:</b> 1/25/2015
NAVSUP WSS	1/27/2015	MC	<b>NSN/NIIN:</b> 6850-01-574-8506 <b>CAGE:</b> 1WAH6 <b>PART NUMBER/DRAWING/SPECIFICATION:</b> CHTC-CA-6
NSWCCD			<b>SHML STATUS:</b> (NIS=Not in SHML; A=Authorized; P= Prohibited; R=Restricted; R O=Obsolete; N=Not Determined)
ISEA			<b>MSDS NUMBER:</b> (NIH=Not In HMIRS) CYJLW <b>MIP:</b> 6641/002 <b>MRC:</b> D-3
LCM/ISEA			<b>MIP/MRC:</b> NONE <b>APL:</b> NONE <b>AEL:</b> NONE
NAVSUP WSS			<b>APL/AEL:</b> 67A990004 <b>TECHNICAL MANUAL:</b> S6480-01-574-8506
			<b>AIRCRAFT APPLICATIONS:</b> NO
<b>RELATED SFR's:</b> NONE			<b>NOTES:</b> 5/T6/B 6-8 OUNCE CONTAINERS PER BOX. REMARKS IN SHML STATES: USE ONLY IAW MRC F7NK, SEE ALT NIIN 013620042. NIIN 013620042 IS LISTED ON THE DDG T-SHML WITH A "P" (PROHIBITED FOR SHIPBOARD USE).



Current Date: 25JAN15

(R)

NIT

RECEIVED  
JAN 26 2015  
BY: JFR 5224

SHIP'S HAZARDOUS MATERIALS LIST (SHML)  
FEEDBACK REPORT (SFR)

This form needs to be completed if the Hazardous Material  
that you want to purchase is not authorized on your T-SHML

SHIP NAME: USS GRAVELY

HULL NUMBER: DDG 107

TYCOM: SURFLANT

UIC: V23164

Serial Number:

AIRCRAFT RELATED: ☐ Yes ☒ No

**I. JUSTIFICATION** (To include equipment/application this material is to be used on):  
REQUIRED FOR MAINTENANCE ON THE TOILETS AND URINALS FOR THE VCHT SYSTEM IAW: MRC-6641/002  
D-3 PER CNSL FORCE 3M COORDINATOR FORCE REVISION MESSAGE TO ALL CNSL COMMANDS.

CURRENTLY USED NSN OR PRODUCT TO BE REPLACED (if applicable): 01-521-6611

**II. TECHNICAL DATA**

MAINTENANCE INDEX PAGE (MIP) #: 6641/002

MAINTENANCE REQUIREMENT CARD (MRC #: D-3

APL OR AEL: 67A990004

TECH MANUAL: S6480-01-574-8506

REV.3

ESTIMATED YEARLY REQUIREMENT: 100

**III. MANUFACTURER DATA** (If requested NSN is provided proceed to section IV)

NSN: 6850-01-574-8506

1 WAH6

MANUFACTURER: INTEK MARINE TECHNOLOGY, LLC

PHONE: 703 - 691 - 4110

ITEM OR TRADE NAME: INTEK-CHTC

PART NUMBER OR SPECIFICATION: CHTC-CA-6

UNIT OF ISSUE: BX

UNIT OF MEASURE: LBS 6-8 LB CONTAINERS

CYJLW

5/16/13 MFC-SAD  
MFC'S HASHT  
CHANGED  
SINCE 2007

**IV. ENDORSEMENTS**

REQUESTORS NAME: DC2(SW) LUCAS *Remarks currently say: USE ONLY IAW MRC F7NK, See ACT N11N 013620042 - DDGT-SHML SAYS (P), RANK: E-5*

EMAIL: LUCASDW@DDG107.NAVY.MIL

DATE PREPARED: 25JAN15

COMMANDER OR DESIGNEE NAME: CDR AMBROSE

RANK: O-5

EMAIL: AMBROSEA@DDG107.NAVY.MIL

DATE: 25JAN15

SIGNATURE: *[Signature]*

CO's signature denotes acceptance of all liabilities associated with  
the procurement and use of this non-SHML hazardous material

Electronic submission of SHML Feedback Report/s constitutes CO's approval

Mail to:

Commanding Officer, NAVSUP Weapons Systems Support  
P.O. Box 2020, Code M0772.22  
5450 Carlisle Pike, Mechanicsburg PA 17055-0788  
Fax: DSN 430-3480 or COM 717-605-3480  
Email: wraps.prime.fct@navy.mil

**Celona, Michael J CIV NAVSUP WSS, M077**

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**From:** Bolt, Brandon L. LS2 DDG 107 <boltbl@ddg107.navy.mil>  
**Sent:** Monday, January 26, 2015 17:36  
**To:** Celona, Michael J CIV NAVSUP WSS, M077  
**Cc:** Mobel, Pearlyn C. LS1 DDG 107; Kekeh, Yao K. LSC DDG 107; Baker, Jonathan E. LTJG (DCA) DDG 107  
**Subject:** SFR  
**Attachments:** SFR.pdf

**RECEIVED**  
JAN 26 2015  
BY: SFR 5224

Michael Celona,

Could you please process the attached SFR for USS Gravely? Thank you.

V/r

LS2(SW/IDW/AW) Bolt

USS Gravely DDG 107

HAZMAT Supervisor

**Celona, Michael J CIV NAVSUP WSS, M077**

**From:** Celona, Michael J CIV NAVSUP WSS, M077  
**Sent:** Tuesday, January 27, 2015 13:36  
**To:** Gil-Matos, Adriana M CIV NSWCCD Philadelphia, 6350  
**Cc:** USS GRAVELY (agn@saltsmail.salts.navy.mil); 'Bolt, Brandon L. LS2 DDG 107'; Mobel, Pearlyn C. LS1 DDG 107; Kekeh, Yao K. LSC DDG 107; Baker, Jonathan E. LTJG (DCA) DDG 107; 'COMNAVAIRPAC'; 'COMNAVAIRLANT (aor@saltsmail.salts.navy.mil)'; 'COMNAVSURFLANT'; 'COMNAVSURFPAC'; Bottinelli, Jehdia CIV NAVSUP GLS; Houde, Jennifer S CIV NAVSUP WSS, M077; Hammerer, Mary Q CIV NAVAIR 6.7.1.4; Ichniowski, Matthew CIV nawcad, 6.0; Wilson, James N CIV NAVSUP FLC Norfolk, 401.2; Armacost, Andrew H CIV MSC, N46; Siebor, Adam CIV NAVSUP FLC Norfolk, 401.2; Kurylo, Timothy S CIV NSWCCD Philadelphia, 6350; Mukherjee, Sandi CIV NAVSUP WSS, M077  
**Subject:** USS GRAVELY: SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR) #5224  
**Signed By:** mike.celona@navy.mil

**From:** Commander, NAVSUP Weapon Systems Support, Mechanicsburg (NWSS-M), Pa., Code N242  
**To:** Naval Surface Warfare Center, Carderock Division-Ships Systems Engineering Station (NSWCCD-SSES), Code 635

**Copy to:** Commander, Naval Surface Force, U.S. Atlantic Fleet (COMNAVSURFLANT), Code N411B  
Commander, Naval Surface Force, U.S. Pacific Fleet (COMNAVSURFPAC), Code N931  
Commander, Naval Air Force, U.S. Atlantic Fleet (COMNAVAIRLANT), Code N412A  
Commander, Naval Air Force, U.S. Pacific Fleet (COMNAVAIRPAC), Code 80

**Subj:** FORWARDING OF SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR)

**Attn:** Adriana Gil-Matos

**Ref:** (a) NAVSUP PUB P-485 SFR PROCESS  
(b) NWSS-M Point Of Contact (POC): Mike Celona, Code N242, Tel: (717) 605-8319 or DSN: 430-8319. Fax: 717-605-3480 or DSN: 430-3480  
(c) (SFR #5224) INTEK-CHTC, (Part# CHTC-CA-6), NSN: 6850-01-574-8506  
(d) POC for the USS Gravelly (DDG-107): LS2 (SW/IDW/AW) Bolt  
(e) NSWCCD-SSES POC, Adriana Gil-Matos, Tel: (215) 897-7336, DSN: 430-7336

1. Per ref (a), ref (b) received ref (c) SFR from ref (d). Each SFR is reviewed and is assigned an SFR number by ref (b) and processed through the Hardware Systems Command (HSC) Technical Authorities (TA) ref (b) and (e). The following information provides the current status of your SFR.

Ref (b) has forwarded your SFR to ref (e) for further review and analysis. Upon ref (e) recommendation, NSWCCD TA will issue an authorization decision. At that time, ref (b) will advise all POC's of the final analysis (approval/disapproval) of ref (e) review. When the results of this analysis is complete, the SHML/T-SHML will be modified by ref (b) to reflect the appropriate information on its next update.

*ADRIANA  
FORWARDED THIS  
SFR TO  
FRANK IACOMINI  
FOR REVIEW ON  
1-29-15 - see attache*

2. Our point of contact in the Asset Protection-Pollution Prevention and PHS&T Division is Mr. Mike Celona, Code N242, DSN: 430-8319 or (717) 605-8319. Fax: DSN 430-3480 or (717) 605-3480.

**Celona, Michael J CIV NAVSUP WSS, M077**

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**From:** Gil-Matos, Adriana M CIV NSWCCD Philadelphia, 6350  
**Sent:** Thursday, January 29, 2015 11:04  
**To:** Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350  
**Cc:** Celona, Michael J CIV NAVSUP WSS, M077; Kurylo, Timothy S CIV NSWCCD Philadelphia, 6350  
**Subject:** SFR 5224 FOR YOUR REVIEW  
**Attachments:** SFR 5224 FOR YOUR REVIEW (194 KB); RE: USS GRAVELY: SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPO... (9.22 KB)  
**Signed By:** adriana.gil-matos@navy.mil

Frank,

Good morning! Given that I have been directed to work in a Contracting Officer Representative (COR) detail and directed to transfer you the SFR reviews; I am forwarding you SFR 5224 for your review.

Very Respectfully,

=====  
Adriana M. Gil Matos  
Chemical Engineer  
HAZMAT ISEA & Specialist  
adriana.gil-matos@navy.mil  
215-897-7336

NSWCCD Code 635, Solid Waste & HAZMAT ISE Branch  
5001 S. Broad Street  
Philadelphia, PA 19112  
=====

"FOUO-PRIVACY SENSITIVE:

FOR OFFICIAL USE ONLY -PRIVACY SENSITIVE -Any misuse or unauthorized disclosure of this information may result in both criminal and civil penalties"



## DEPARTMENT OF THE NAVY

### NAVSUP WEAPON SYSTEMS SUPPORT

700 ROBBINS AVENUE  
PHILADELPHIA PA 19111-5098

5450 CARLISLE PIKE - PO BOX 2020  
MECHANICSBURG PA 17055-0788

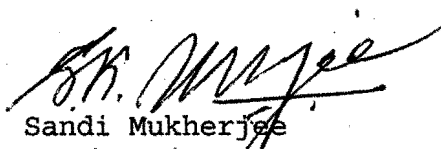
COM & FTS 717-605-8319  
DSN & EXT 430-8319  
FAX # 717-605-3480  
IN REPLY REFER TO:  
4030  
Ser N242/015  
27 January 2015

From: Commander, NAVSUP Weapon Systems Support, Mechanicsburg (NWSS-M),  
Pa., Code M0772  
To: Commanding Officer, Naval Surface Warfare Center, Carderock  
Division-Ship Systems Engineering Station (NSWCCD-SSES),  
Code 635

Subj: FORWARDING OF SHIPBOARD HAZARDOUS MATERIAL LIST (SHML) FEEDBACK  
REPORT (SFR)

Encl: (1) SHML SFR (SFR# 5224)

1. Enclosure (1) contains a packet of one (1) SFR (SFR# 5224) for your review/recommendation.
2. Our point of contact in the Asset Protection-Pollution Prevention and PHS&T Division is Mr. Mike Celona, Code 0772.23, DSN 430-8319 for (717) 605-8319. Fax: DSN 430-3480 or (717) 605-3480.

  
Sandi Mukherjee  
By Direction

**Celona, Michael J CIV NAVSUP WSS, M077**

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**From:** Celona, Michael J CIV NAVSUP WSS, M077  
**Sent:** Thursday, February 05, 2015 15:59  
**To:** USS SOMERSET (LPD-25) (ank@saltsmail.salts.navy.mil); Norton Timothy A LS1; Damore Kathryn M LT (SUPPO); Osteria Reynaldo O SHC  
**Cc:** 'COMNAVAIRPAC'; 'COMNAVAIRLANT (aor@saltsmail.salts.navy.mil)'; 'COMNAVSURFLANT'; 'COMNAVSURFPAC'; Celona, Michael J CIV NAVSUP WSS, M077; Bottinelli, Jehdia CIV NAVSUP GLS; Houde, Jennifer S CIV NAVSUP WSS, M077; Hammerer, Mary Q CIV NAVAIR 6.7.1.4; Ichniowski, Matthew CIV nawcad, 6.0; Wilson, James N CIV NAVSUP FLC Norfolk, 401.2; Armacost, Andrew H CIV MSC, N46; Siebor, Adam CIV NAVSUP FLC Norfolk, 401.2; Kurylo, Timothy S CIV NSWCCD Philadelphia, 6350; Mukherjee, Sandi CIV NAVSUP WSS, M077; Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350  
**Subject:** USS SOMERSET: SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR) #5226 (FINAL ANSWER)

**From:** Commander, NAVSUP Weapon Systems Support, Mechanicsburg (NWSS-M), Pa., Code N242  
**To:** Commander, USS Somerset (LPD-25)

**Copy to:** Commander, Naval Surface Force, U.S. Atlantic Fleet (COMNAVSURFLANT), Code N411B  
Commander, Naval Surface Force, U.S. Pacific Fleet (COMNAVSURFPAC), Code N931  
Commander, Naval Air Force, U.S. Atlantic Fleet (COMNAVAIRLANT), Code N412A  
Commander, Naval Air Force, U.S. Pacific Fleet (COMNAVAIRPAC), Code 80

**Subj:** FORWARDING OF SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR)

**Attn:** LS1 (AW) Timothy A. Norton

**Ref:** (a) NAVSUP PUB P-485 SFR PROCESS  
(b) NWSS-M Point Of Contact (POC): Mike Celona, Code N242, Tel: (717) 605-8319 or DSN: 430-8319. Fax: 717-605-3480 or DSN: 430-3480  
(c) (SFR #5226) ADHESIVE, (Part# PLIOBOND HT-30), NSN: 8040-01-205-3995  
(d) POC for the USS Somerset (LPD-25): LS1 (AW) Timothy A. Norton  
(e) NSWCCD-SSES POC, Frank Iaconianni, Tel: (215) 897-7494, DSN: 430-7494

1. Per ref (a), ref (b) received ref (c) SFR from ref (d). Each SFR is reviewed and is assigned an SFR number by ref (b) and processed through the Hardware Systems Command (HSC) Technical Authorities (TA) ref (b) and (e). The following information provides the current status of your SFR.

2. Concerning ref (c) SFR# 5226 per ref (e):

USS Somerset (LPD-25)

Mike,

SFR 5226: The SFR requested material (NSN: 8040-01-205-3995; Adhesive; P/N: Pliobond HT-30) is required onboard per MIP 5515/030, MRC C1PV, Periodicity S-2, which is the application requested per the SFR. The NSN is currently listed on the Master SHML as Restricted but on the LPD/LSD/LCC Type SHML as Prohibited. However, SHML remarks reference the requested application, so please change the AOB Code from P (Prohibited) to R (Restricted) on the LPD/LSD/LCC Type SHML.

V/R,

Frank J. Iaconianni, Chemist  
NAVSEA Warfare Center Code 635  
Hazardous Materials Control and Management  
215-897-7494  
DSN: 443-7494  
frank.iaconianni@navy.mil

Therefore, NSN: 8040-01-205-3995 IS APPROVED for use and has been updated in the Master SHML and the LPD/LSD/LCC T-SHML with an AOB Code of "R" (RESTRICTED FOR USE ON LPD/LSD/LCC USE IAW MRC C1PV ONLY).

3. Our point of contact in the Asset Protection-Pollution Prevention and PHS&T Division is Mr. Mike Celona, Code N242, DSN: 430-8319 or (717) 605-8319. Fax: DSN 430-3480 or (717) 605-3480.



**Celona, Michael J CIV NAVSUP WSS, M077**

**From:** Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350  
**Sent:** Wednesday, February 04, 2015 15:01  
**To:** Celona, Michael J CIV NAVSUP WSS, M077  
**Cc:** Shull-Archer, Karen E CIV NSWCCD Philadelphia, Code 635; He, Marianne C CIV NSWCCD Philadelphia, 6350  
**Subject:** SFR 5226  
**Signed By:** frank.iaconianni@navy.mil

USS Somerset (LPD-25)

Mike,

9B

*good R*

SFR 5226: The SFR requested material (NSN: 8040-01-205-3995; Adhesive; P/N: Pliobond HT-30) is required onboard per MIP 5515/030, MRC C1PV, Periodicity S-2, which is the application requested per the SFR. The NSN is currently listed on the Master SHML as Restricted but on the LPD/LSD/LCC Type SHML as Prohibited. However, SHML remarks reference the requested application, so please change the AOB Code from P (Prohibited) to R (Restricted) on the LPD/LSD/LCC Type SHML.

V/R,

Frank J. Iaconianni, Chemist  
NAVSEA Warfare Center Code 635  
Hazardous Materials Control and Management  
215-897-7494  
DSN: 443-7494  
frank.iaconianni@navy.mil

*F/IS/H*

*LP/OT/AS/CV/DG/LP/MC/MS*

## ORIGINATOR:

NAVSUP WSS-MECHANICSBURG, PA, CODE N242, BUILDING 312, TEL: 717-605-8319, DSN: 430-8319  
FAX: 717-605-3480, DSN: 430-3480

REC'D AT NAVSUP WSS: 2/4/2015 FPO#: NONE -- UIC#: 23181 TYCOM: SURFPAC

TO CODE:	RELEASE DATE:	INITIALS	SUBJECT: SHIP HAZARDOUS MATERIAL LIST (SHML FEEDBACK REPORT (SFR))  SFR # 5226  ATTACHED FROM (SHIP): USS SOMERSET (LPD-25)  PRODUCT NAME: ADHESIVE  DATE ON SFR: 1/30/2015
NAVSUP WSS	2/4/2015	MC	NSN/NIIN: 8040-01-205-3995 CAGE: 34897
NSWCCD			PART NUMBER/DRAWING/SPECIFICATION: PLIOBOND HT-30
ISEA			SHML STATUS: (NIS=Not in SHML; A=Authorized; P= Prohibited; R=Restricted; O=Obsolete; N=Not Determined) P
			MSDS NUMBER: (NIH=Not In HMIRS) CZGHJ
			MIP: 5512/030
			MRC: S-2
LCM/ISEA			MIP/MRC: NONE
			APL: NONE
			AEL: NONE
NAVSUP WSS			APL/AEL: 06A040004
			TECHNICAL MANUAL: S6220-EE-MMA-A101
			AIRCRAFT APPLICATIONS: NO
RELATED SFR's: NONE			NOTES: F/F5/H 1 PINT CAN.

Current Date: 1/30/2015

**RECEIVED**  
FEB 3 2015  
BY: SFR5226

**SHIP'S HAZARDOUS MATERIALS LIST (SHML)  
FEEDBACK REPORT (SFR)**

*Master R*  
*LPDT-SHML (F)*  
*NIT*

*This form needs to be completed if the Hazardous Material  
that you want to purchase is not authorized on your T-SHML*

SHIP NAME: USS SOMERSET

HULL NUMBER: LPD-25

TYCOM: CHOOSE ONE

UIC: 23181

Serial Number:

AIRCRAFT RELATED: ☐ Yes ☒ No

**I. JUSTIFICATION** (To include equipment/application this material is to be used on):

PMS MIP 5512/030 (C2 C1PV Y) S-2 MATERIAL: [03951]- SPMIG (ADHESIVE) NIIN: 012053995

1. CLEAN HEAT EXCHANGER BY BACKFLUSH.
2. CLEAN HEAT EXCHANGER BY DISASSEMBLY.

Equipment does not have back flushing capabilities. Paragraph 2 step W. STATES: Inspect gaskets for wear and replace gaskets and old adhesive, as required.

CURRENTLY USED NSN OR PRODUCT TO BE REPLACED (if applicable): N/A

**II. TECHNICAL DATA**

MAINTENANCE INDEX PAGE (MIP) #: 5512/030

MAINTENANCE REQUIREMENT CARD (MRC #: S-2

APL OR AEL: 06A040004

TECH MANUAL: S6220-EE-MMA-A101

REV. N/A ESTIMATED YEARLY REQUIREMENT: 1 PINT

**III. MANUFACTURER DATA** (If requested NSN is provided proceed to section IV)

NSN: <sup>98</sup>  
~~98~~ - 8040 - 012053995

*Cage 34897*

*98* MANUFACTURER: ASHLAND CHEMICAL CO FOUNDRY

PHONE: 614 - 790 - 3333

ITEM OR TRADE NAME: ADHESIVE

*TICKET # 04760296*

PART NUMBER OR SPECIFICATION: <sup>L</sup>  
PHIOBOND HT-30

*CZGHJ*

UNIT OF ISSUE: PT

UNIT OF MEASURE: PINT  
*CAN*

*F/F5/H updated MSDS  
sent to HMIRS*

*COLOR - TAN*

**IV. ENDORSEMENTS**

REQUESTORS NAME: MATTHEW BLANTON

RANK: E-7

EMAIL: Matthew.blanton@lpd25.navy.mil

DATE PREPARED: 30 January 2015

COMMANDER OR DESIGNEE NAME: LEONARD REED

RANK: O-6

EMAIL: LEONARD.REED@LPD25.NAVY.MIL

DATE: *2 FEB 15*

SIGNATURE: *[Signature]*

CO's signature denotes acceptance of all liabilities associated with the procurement and use of this non-SHML hazardous material

Electronic submission of SHML Feedback Report/s constitutes CO's approval

Mail to:

Commanding Officer, NAVSUP Weapons Systems Support  
P.O. Box 2020, Code M0772.22

5450 Carlisle Pike, Mechanicsburg PA 17055-0788

Fax: DSN 430-3480 or COM 717-605-3480

Email: wraps.prime.fct@navy.mil

**Celona, Michael J CIV NAVSUP WSS, M077**

---

**From:** Norton Timothy A LS1 <Timothy.Norton@lpd25.navy.mil>  
**Sent:** Tuesday, February 03, 2015 19:49  
**To:** wraps.prime.fct  
**Cc:** Damore Kathryn M LT (SUPPO); Osteria Reynaldo O SHC  
**Subject:** SHML FEEDBACK REPORT  
**Attachments:** DOC.PDF

**RECEIVED**  
FEB 3 2015  
BY: 5226  
SFR

To Whom It May Concern:

Please see the attached SFR for your action. The adhesive is needed for required maintenance. If you have any questions or concerns please let me know. Thanks in advance.

v/r,  
Timothy A. Norton  
LS1(AW) USN  
Supply Department LPO  
Supply Department Career Counselor  
S-1 HAZMAT LPO  
USS SOMERSET LPD25  
Ext. 3601

This is an official U.S. Government email. Release to unauthorized personnel is prohibited. For official use only. This message may contain information covered by the Privacy Act of 1974 that should be viewed only by those with an official "need to know." If you are not the intended recipient, be aware that any disclosure, copying, distribution, or use of the content of this communication is prohibited.

If you have received this communication in error, notify me immediately.

## **Celona, Michael J CIV NAVSUP WSS, M077**

---

**From:** Celona, Michael J CIV NAVSUP WSS, M077  
**Sent:** Wednesday, February 04, 2015 14:16  
**To:** Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350  
**Cc:** USS SOMERSET (LPD-25) (ank@saltsmail.salts.navy.mil); Norton Timothy A LS1; Damore Kathryn M LT (SUPPO); Osteria Reynaldo O SHC; 'COMNAVAIRPAC'; 'COMNAVAIRLANT (aor@saltsmail.salts.navy.mil)'; 'COMNAVSURFLANT'; 'COMNAVSURFPAC'; Celona, Michael J CIV NAVSUP WSS, M077; Bottinelli, Jehdia CIV NAVSUP GLS; Houde, Jennifer S CIV NAVSUP WSS, M077; Hammerer, Mary Q CIV NAVAIR 6.7.1.4; Ichniowski, Matthew CIV nawcad, 6.0; Wilson, James N CIV NAVSUP FLC Norfolk, 401.2; Armacost, Andrew H CIV MSC, N46; Siebor, Adam CIV NAVSUP FLC Norfolk, 401.2; Kurylo, Timothy S CIV NSWCCD Philadelphia, 6350; Mukherjee, Sandi CIV NAVSUP WSS, M077  
**Subject:** USS SOMERSET: SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR) #5226  
**Signed By:** mike.celona@navy.mil

**From:** Commander, NAVSUP Weapon Systems Support, Mechanicsburg (NWSS-M), Pa., Code N242  
**To:** Naval Surface Warfare Center, Carderock Division-Ships Systems Engineering Station (NSWCCD-SSES), Code 6350

**Copy to:** Commander, Naval Surface Force, U.S. Atlantic Fleet (COMNAVSURFLANT), Code N411B  
Commander, Naval Surface Force, U.S. Pacific Fleet (COMNAVSURFPAC), Code N931  
Commander, Naval Air Force, U.S. Atlantic Fleet (COMNAVAIRLANT), Code N412A  
Commander, Naval Air Force, U.S. Pacific Fleet (COMNAVAIRPAC), Code 80

**Subj:** FORWARDING OF SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR)

**Attn:** Frank Iaconianni

**Ref:** (a) NAVSUP PUB P-485 SFR PROCESS  
(b) NWSS-M Point Of Contact (POC): Mike Celona, Code N242, Tel: (717) 605-8319 or DSN: 430-8319. Fax: 717-605-3480 or DSN: 430-3480  
(c) (SFR #5226) ADHESIVE, (Part# PLIOBOND HT-30), NSN: 8040-01-205-3995  
(d) POC for the USS Somerset (LPD-25): LS1 (AW) Timothy A. Norton  
(e) NSWCCD-SSES POC, Frank Iaconianni, Tel: (215) 897-7494, DSN: 430-7494

1. Per ref (a), ref (b) received ref (c) SFR from ref (d). Each SFR is reviewed and is assigned an SFR number by ref (b) and processed through the Hardware Systems Command (HSC) Technical Authorities (TA) ref (b) and (e). The following information provides the current status of your SFR.

Ref (b) has forwarded your SFR to ref (e) for further review and analysis. Upon ref (e) recommendation, NSWCCD TA will issue an authorization decision. At that time, ref (b) will advise all POC's of the final analysis (approval/disapproval) of

ref (e) review. When the results of this analysis is complete, the SHML/T-SHML will be modified by ref (b) to reflect the appropriate information on its next update.

2. Our point of contact in the Asset Protection-Pollution Prevention and PHS&T Division is Mr. Mike Celona, Code N242, DSN: 430-8319 or (717) 605-8319. Fax: DSN 430-3480 or (717) 605-3480.



## DEPARTMENT OF THE NAVY

### NAVSUP WEAPON SYSTEMS SUPPORT

700 ROBBINS AVENUE  
PHILADELPHIA PA 19111-5098

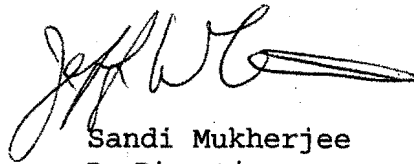
5450 CARLISLE PIKE - PO BOX 2020  
MECHANICSBURG PA 17055-0788

COM & FTS 717-605-8319  
DSN & EXT 430-8319  
FAX # 717-605-3480  
IN REPLY REFER TO:  
4030  
Ser N242/017  
4 February 2015

From: Commander, NAVSUP Weapon Systems Support, Mechanicsburg (NWSS-M),  
Pa., Code M0772  
To: Commanding Officer, Naval Surface Warfare Center, Carderock  
Division-Ship Systems Engineering Station (NSWCCD-SSSES),  
Code 635  
Subj: FORWARDING OF SHIPBOARD HAZARDOUS MATERIAL LIST (SHML) FEEDBACK  
REPORT (SFR)

Encl: (1) SHML SFR (SFR# 5226)

1. Enclosure (1) contains a packet of one (1) SFR (SFR# 5226) for your review/recommendation.
2. Our point of contact in the Asset Protection-Pollution Prevention and PHS&T Division is Mr. Mike Celona, Code 0772.23, DSN 430-8319 for (717) 605-8319. Fax: DSN 430-3480 or (717) 605-3480.

  
Sandi Mukherjee  
By Direction

## **Celona, Michael J CIV NAVSUP WSS, M077**

---

**From:** Celona, Michael J CIV NAVSUP WSS, M077  
**Sent:** Tuesday, February 10, 2015 10:09  
**To:** USS CHIEF (chf@saltsmail.salts.navy.mil); 'White, Nicholas LS2 SUP MCM14'; SUPPO  
**Cc:** 'COMNAVAIRPAC'; 'COMNAVAIRLANT (aor@saltsmail.salts.navy.mil)';  
'COMNAVSURFLANT'; 'COMNAVSURFPAC'; Celona, Michael J CIV NAVSUP WSS, M077;  
Bottinelli, Jehdia CIV NAVSUP GLS; Houde, Jennifer S CIV NAVSUP WSS, M077;  
Hammerer, Mary Q CIV NAVAIR 6.7.1.4; Ichniowski, Matthew CIV nawcad, 6.0; Wilson,  
James N CIV NAVSUP FLC Norfolk, 401.2; Armacost, Andrew H CIV MSC, N46; Siebor,  
Adam CIV NAVSUP FLC Norfolk, 401.2; Kurylo, Timothy S CIV NSWCCD Philadelphia,  
6350; Mukherjee, Sandi CIV NAVSUP WSS, M077; Iaconianni, Frank J CIV NSWCCD  
Philadelphia, 6350  
**Subject:** USS CHIEF: SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT/S  
(SFR's) #5227-5229 (FINAL ANSWER)  
**Signed By:** mike.celona@navy.mil

**From:** Commander, NAVSUP Weapon Systems Support, Mechanicsburg (NWSS-M),  
Pa., Code N242  
**To:** Commander, USS Chief (MCM-14)

**Copy to:** Commander, Naval Surface Force, U.S. Atlantic Fleet  
(COMNAVSURFLANT), Code N411B  
Commander, Naval Surface Force, U.S. Pacific Fleet (COMNAVSURFPAC),  
Code N931  
Commander, Naval Air Force, U.S. Atlantic Fleet (COMNAVAIRLANT),  
Code N412A  
Commander, Naval Air Force, U.S. Pacific Fleet (COMNAVAIRPAC),  
Code 80

**Subj:** FORWARDING OF SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK  
REPORT/S (SFR's)

**Attn:** LS2 Nicholas L. White

**Ref:** (a) NAVSUP PUB P-485 SFR PROCESS  
(b) NWSS-M Point Of Contact (POC): Mike Celona, Code N242,  
Tel: (717) 605-8319 or DSN: 430-8319. Fax: 717-605-3480 or  
DSN: 430-3480  
(c) (SFR #5227), WATER SAMPLING TEST REAGENT, COLIFORM,  
(Part# WP020), NSN: 6630-01-362-8299  
(d) (SFR #5228), SAMPLE TEST GAS, (Part# N-64083 & SG-2002-01201),  
NSN: 6665-01-415-4955  
(e) (SFR #5229), CARTRIDGE, TONER, (Part# CE390A), NSN: 7510-01-630-9330  
(f) POC for the USS Chief (MCM-14): LS2 Nicholas L. White  
(g) NSWCCD-SSES POC, Frank Iaconianni, Tel: (215) 897-7494, DSN: 430-7494

1. Per ref (a), ref (b) received ref (c) through (e) SFR's from ref (f). Each SFR is reviewed and is assigned an SFR number by ref (b) and processed through the Hardware Systems Command (HSC) Technical Authorities (TA) ref (b) and (g). The following information provides the current status of your SFR's.



2. Concerning ref (c) SFR# 5227 per ref (g):

USS Chief (MCM-14)

Mike,

SFR 5227: The SFR requested material (NSN: 6630-01-362-8299; Water Sampling Test Reagent, Coliform) is required per MIP 6521/R26, MRC FB26, and SPMIG [10061] onboard MCM-14. Please change the AOB for the requested NSN from P to R on the MCM Type SHML.

V/R,

Frank J. Iaconianni, Chemist  
NAVSEA Warfare Center Code 635  
Hazardous Materials Control and Management  
215-897-7494  
DSN: 443-7494  
frank.iaconianni@navy.mil

Therefore, NSN: 6630-01-362-8299 IS APPROVED FOR USE and has been updated in the Master SHML and the MCM T-SHML with an AOB code of "R" (RESTRICTED FOR USE ONLY IAW MRC'S E2FB, F3HK, FB26 & NT93).

3. Concerning ref (d) SFR# 5228 per ref (g):

SFR 5228: The SFR requested material (NSN: 6665-01-415-4955; Sample Test Gas) is required per MIP 4361/015, MRC 9CAY, and SPMIG [18400] onboard MCM-14. Please change the AOB for the requested NSN from P to R on the MCM Type SHML.

Therefore, NSN 6665-01-415-4955 IS APPROVED FOR USE and has been updated in the Master SHML and the MCM T-SHML with an AOB code of "R" (RESTRICTED FOR H2S DETECTOR CALIBRATION, USE ONLY W/H2S CALIBRATION KIT N-18004).

4. Concerning ref (e) SFR# 5229 per ref (g):

SFR 5229: The SFR requested material (NSN: 7510-01-630-9330; Toner Cartridge) was requested for use with a Hewlett Packard printer. Reviewing the logistics system, this appears to be a relatively new item, and is not listed on the SHML. Currently authorized toner cartridges do not appear to be equivalent. Therefore recommend that the requested NSN be added to the Master SHML and MCM Type SHML with an AOB Code of R, "Restricted to use with Hewlett-Packard Laser Printer," and a MMI Code of N.

Therefore, NSN 7510-01-630-9330 IS APPROVED FOR USE and has been updated in the Master SHML and the MCM T-SHML with an AOB code of "R" (RESTRICTED FOR USE WITH HEWLETT-PACKARD LASER PRINTER).

5. Our point of contact in the Asset Protection-Pollution Prevention and PHS&T Division is Mr. Mike Celona, Code N242, DSN: 430-8319 or (717) 605-8319. Fax: DSN 430-3480 or (717) 605-3480.

**Celona, Michael J CIV NAVSUP WSS, M077**

**From:** Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350  
**Sent:** Friday, February 06, 2015 12:03  
**To:** Celona, Michael J CIV NAVSUP WSS, M077  
**Cc:** Shull-Archer, Karen E CIV NSWCCD Philadelphia, Code 635; He, Marianne C CIV NSWCCD Philadelphia, 6350  
**Subject:** SFRs 5227-5229  
**Signed By:** frank.iaconianni@navy.mil

USS Chief (MCM-14)

Mike,

*good R (9B) 5/16/B ALLT-SHML'S "yes" except "AO"*  
SFR 5227: The SFR requested material (NSN: 6630-01-362-8299; Water Sampling Test Reagent, Coliform) is required per MIP 6521/R26, MRC FB26, and SPMIG [10061] onboard MCM-14. Please change the AOB for the requested NSN from P to R on the MCM Type SHML.

*good R (9B) w/C3/H all T-Shulls "yes" except "SB"*  
SFR 5228: The SFR requested material (NSN: 6665-01-415-4955; Sample Test Gas) is required per MIP 4361/015, MRC 9CAY, and SPMIG [18400] onboard MCM-14. Please change the AOB for the requested NSN from P to R on the MCM Type SHML.

*good R (14) 5/11/A mcm/ms/OT*  
SFR 5229: The SFR requested material (NSN: 7510-01-630-9330; Toner Cartridge) was requested for use with a Hewlett Packard printer. Reviewing the logistics system, this appears to be a relatively new item, and is not listed on the SHML. Currently authorized toner cartridges do not appear to be equivalent. Therefore recommend that the requested NSN be added to the Master SHML and MCM Type SHML with an AOB Code of R, "Restricted to use with Hewlett-Packard Laser Printer," and a MMI Code of N.

V/R,

Frank J. Iaconianni, Chemist  
NAVSEA Warfare Center Code 635  
Hazardous Materials Control and Management  
215-897-7494  
DSN: 443-7494  
frank.iaconianni@navy.mil

<b>ORIGINATOR:</b> NAVSUP WSS-MECHANICSBURG, PA, CODE N242, BUILDING 312, TEL: 717-605-8319, DSN: 430-8319 FAX: 717-605-3480, DSN: 430-3480			
<b>REC'D AT NAVSUP WSS: 2/4/2015    FPO#: AA34090 - 1934    UIC#: 21902    TYCOM: SURFLANT</b>			
<b>TO CODE:</b>	<b>RELEASE DATE:</b>	<b>INITIALS</b>	<b>SUBJECT:            SHIP HAZARDOUS MATERIAL LIST                           (SHML FEEDBACK REPORT (SFR))</b>  <b>SFR # 5227</b>  <b>ATTACHED FROM (SHIP):        USS CHIEF (MCM-14)</b>  <b>PRODUCT NAME: WATER SAMPLING TEST REAGENT, COLIFORM</b>  <b>DATE ON SFR:        1/26/2015</b>
<b>NAVSUP WSS</b>	<b>2/5/2015</b>	<b>MC</b>	<b>NSN/NIIN: 6630-01-362-8299                    CAGE: 0USV5</b>
<b>NSWCCD</b>			<b>PART NUMBER/DRAWING/SPECIFICATION: WP020</b>
<b>ISEA</b>			<b>SHML STATUS: (NIS=Not in SHML; A=Authorized;                           P= Prohibited; R=Restricted; P                    O=Obsolete; N=Not Determined)</b>
			<b>MSDS NUMBER: (NIH=Not In HMIRS) EXWPB</b>
			<b>MIP: NONE</b>
			<b>MRC: NONE</b>
<b>LCM/ISEA</b>			<b>MIP/MRC: NONE</b>
			<b>APL: NONE</b>
			<b>AEL: NONE</b>
<b>NAVSUP WSS</b>			<b>APL/AEL: NONE</b>
			<b>TECHNICAL MANUAL: NONE</b>
			<b>AIRCRAFT APPLICATIONS: NO</b>
<b>RELATED SFR's: 4152, 4679 &amp; 5046</b>			<b>NOTES: 5/T6/B    20 EACH PER BOX.</b>

**RECEIVED**  
FEB 4, 2015  
BY: SFR5227

AA34090-1934

Current Date: 1/26/2015

**SHIP'S HAZARDOUS MATERIALS LIST (SHML)  
FEEDBACK REPORT (SFR)**

Master R  
T-Shull P

This form needs to be completed if the Hazardous Material  
that you want to purchase is not authorized on your T-SHML

SHIP NAME: USS CHIEF

HULL NUMBER: MCM-14

TYCOM: SURFPAC

UIC: 21902

Serial Number: S133

AIRCRAFT RELATED: ☐ Yes ☒ No

**I. JUSTIFICATION**

(To include equipment/application this material is to be used on):

MATERIAL IS REQUIRED FOR WEEKLY BACTERIOLOGICAL TESTING OF ICE AND WATER PER NAVMED P-5010 CH. 6.

CURRENTLY USED NSN OR PRODUCT TO BE REPLACED (if applicable): 6630013628299

use N11N  
61357591

**II. TECHNICAL DATA**

See SFR 4679 + 5046  
also SFR 4152

MAINTENANCE INDEX PAGE (MIP) #: NA

MAINTENANCE REQUIREMENT CARD (MRC #: NA

APL OR AEL: NA

TECH MANUAL: NA

REV.

ESTIMATED YEARLY REQUIREMENT: 20

**III. MANUFACTURER DATA**

(If requested NSN is provided proceed to section IV)

9B NSN: 6630 - 01 - 362 - 8299

Cage # 45V5

MANUFACTURER: IDEXX

PHONE: 207 - 556 - 4496

ITEM OR TRADE NAME: WATER SAMPLING TEST REAGENT, COLIFORM.

EXWPB  
5/16/18

PART NUMBER OR SPECIFICATION: 98-12973-00 WP020

UNIT OF ISSUE: BX PC

UNIT OF MEASURE: BX 20 EA

**IV. ENDORSEMENTS**

REQUESTORS NAME: ALEXANDER, JARED L

PH 7.2-7.4  
weight .75LB  
20 EA PER BX

RANK: E6

EMAIL: JARED.ALEXANDER@MCM14.NAVY.MIL

DATE PREPARED: 26JAN2015

COMMANDER OR DESIGNEE NAME: CORREIA, JAMES

RANK: 04

EMAIL: CO@MCM14.NAVY.MIL

DATE: 26JAN2015

SIGNATURE: [Signature]

CO's signature denotes acceptance of all liabilities associated with  
the procurement and use of this non-SHML hazardous material

Electronic submission of SHML Feedback Report/s constitutes CO's approval

Mail to:

Commanding Officer, NAVSUP Weapons Systems Support  
P.O. Box 2020, Code M0772.22  
5450 Carlisle Pike, Mechanicsburg PA 17055-0788  
Fax: DSN 430-3480 or COM 717-605-3480  
Email: wraps.prime.fct@navy.mil

## ORIGINATOR:

NAVSUP WSS-MECHANICSBURG, PA, CODE N242, BUILDING 312, TEL: 717-605-8319, DSN: 430-8319  
FAX: 717-605-3480, DSN: 430-3480

REC'D AT NAVSUP WSS: 2/4/2015 FPO#: AA34090 - 1934 UIC#: 21902 TYCOM: SURFLANT

TO CODE:	RELEASE DATE:	INITIALS	<b>SUBJECT: SHIP HAZARDOUS MATERIAL LIST (SHML FEEDBACK REPORT (SFR))</b>  <b>SFR # 5228</b>  <b>ATTACHED FROM (SHIP): USS CHIEF (MCM-14)</b>  <b>PRODUCT NAME: SAMPLE TEST GAS</b>  <b>DATE ON SFR: 1/15/2015</b>
NAVSUP WSS	2/5/2015	MC	<b>NSN/NIIN: 6665-01-415-4955 CAGE: 4YRR6</b>
NSWCCD			<b>PART NUMBER/DRAWING/SPECIFICATION:</b> N-64083 & SG-2002-01201 ( 4 LB )
ISEA			<b>SHML STATUS: (NIS=Not in SHML; A=Authorized; P= Prohibited; R=Restricted; O=Obsolete; N=Not Determined)</b> P
			<b>MSDS NUMBER: (NIH=Not In HMIRS)</b> NIH
			<b>MIP: 4361/015</b>
			<b>MRC: 4M-1</b>
LCM/ISEA			<b>MIP/MRC: NONE</b>
			<b>APL: NONE</b>
			<b>AEL: NONE</b>
NAVSUP WSS			<b>APL/AEL: NONE</b>
			<b>TECHNICAL MANUAL: S9550-B7-MMA-010/66647</b>
			<b>AIRCRAFT APPLICATIONS: NO</b>
<b>RELATED SFR's: 1783 &amp; 2423</b>			<b>NOTES: W/G3/H 1 CYLINDER EACH.</b>  4 LB CYLINDER

Current Date: 1/15/2015

**RECEIVED**  
FEB 4, 2015  
OF: SFR 5228

**SHIP'S HAZARDOUS MATERIALS LIST (SHML)  
FEEDBACK REPORT (SFR)**

Master R  
T-Shml (P)  
N1H

This form needs to be completed if the Hazardous Material that you want to purchase is not authorized on your T-SHML

SHIP NAME: USS CHIEF

HULL NUMBER: MCM-14

TYCOM: SURFPAC

UIC: 21902

Serial Number: 3228

AIRCRAFT RELATED: ☐ Yes ☒ No

**I. JUSTIFICATION** (To include equipment/application this material is to be used on):  
H2S DETECTOR SYSTEM. THIS GAS IS REQUIRED TO CALIBRATE ALL FOUR H2S SENSORS EITHER EVERY 4 MONTHS OR AFTER SENSOR REPLACEMENT.

CURRENTLY USED NSN OR PRODUCT TO BE REPLACED (if applicable): 6665-01-415-4955

**II. TECHNICAL DATA**

See SFR #1783 + 2423

MAINTENANCE INDEX PAGE (MIP) #: 4361/015

MAINTENANCE REQUIREMENT CARD (MRC #: 4M-1

APL OR AEL:

TECH MANUAL: S9550-B7-MMA-010/66647

REV. B7

ESTIMATED YEARLY REQUIREMENT: 12

**III. MANUFACTURER DATA** (If requested NSN is provided proceed to section IV)

NSN: 6665-01-415-4955

AIR LIQUIDE AMERICA SPECIALTY GASES LLC

800-217-2688

MANUFACTURER: SIERRA MONITOR CORPORATION

PHONE: 408-262-6611

ITEM OR TRADE NAME: SAMPLE TEST GAS

SG-2002-01201

PART NUMBER OR SPECIFICATION: N-64083

LINDLEE JOSEPH @ AIRLIQUIDE.COM

UNIT OF ISSUE: EA

UNIT OF MEASURE: CY

LORI X104  
LINDLEE JOSEPH  
X1118

MSDS SENT TO HMMRS

W/G3/H

TICKET # 04761342

**IV. ENDORSEMENTS**

Cage IRBN6/PN: 58L181SP/GASCO AFFILIATES, L.L.C.

REQUESTORS NAME: TAN, ERIC

RANK: O1

EMAIL: ERIC.TAN@MCM14.NAVY.MIL

DATE PREPARED: 15JAN2015

COMMANDER OR DESIGNEE NAME: CORREIA, JAMES

RANK: O4

EMAIL: CO@MCM14.NAVY.MIL

DATE: 15JAN2015

SIGNATURE:

CO's signature denotes acceptance of all liabilities associated with the procurement and use of this non-SHML hazardous material

Electronic submission of SHML Feedback Report/s constitutes CO's approval

Mail to:

Commanding Officer, NAVSUP Weapons Systems Support

P.O. Box 2020, Code M0772.22

5450 Carlisle Pike, Mechanicsburg PA 17055-0788

Fax: DSN 430-3480 or COM 717-605-3480

Email: wraps.prime.fct@navy.mil

4 LB  
CYLINDER

<b>ORIGINATOR:</b> NAVSUP WSS-MECHANICSBURG, PA, CODE N242, BUILDING 312, TEL: 717-605-8319, DSN: 430-8319 FAX: 717-605-3480, DSN: 430-3480			
<b>REC'D AT NAVSUP WSS: 2/4/2015 FPO#: AA34090 - 1934 UIC#: 21902 TYCOM: SURFLANT</b>			
<b>TO CODE:</b>	<b>RELEASE DATE:</b>	<b>INITIALS</b>	<b>SUBJECT: SHIP HAZARDOUS MATERIAL LIST (SHML FEEDBACK REPORT (SFR))</b>  <b>SFR # 5229</b>  <b>ATTACHED FROM (SHIP):</b> USS CHIEF (MCM-14)  <b>PRODUCT NAME:</b> CARTRIDGE, TONER  <b>DATE ON SFR:</b> 1/15/2015
<b>NAVSUP WSS</b>	<b>2/5/2015</b>	<b>MC</b>	<b>NSN/NIIN:</b> 7510-01-630-9330 <b>CAGE:</b> 3FFX3
<b>NSWCCD</b>			<b>PART NUMBER/DRAWING/SPECIFICATION:</b> CE390A
<b>ISEA</b>			<b>SHML STATUS: (NIS=Not in SHML; A=Authorized; P= Prohibited; R=Restricted; O=Obsolete; N=Not Determined)</b> <b>NIS</b>
			<b>MSDS NUMBER: (NIH=Not In HMIRS)</b> NIH
			<b>MIP:</b> NONE
			<b>MRC:</b> NONE
<b>LCM/ISEA</b>			<b>MIP/MRC:</b> NONE
			<b>APL:</b> NONE
			<b>AEL:</b> NONE
<b>NAVSUP WSS</b>			<b>APL/AEL:</b> NONE
			<b>TECHNICAL MANUAL:</b> NONE
			<b>AIRCRAFT APPLICATIONS:</b> NO
<b>RELATED SFR's:</b> NONE			<b>NOTES:</b> 5/N1/A 1 EACH PER BOX.

RECEIVED

FEB 4, 2015

BY: SFR 5229

Current Date: 1/15/2015

SHIP'S HAZARDOUS MATERIALS LIST (SHML)  
FEEDBACK REPORT (SFR)

NOT IN SHML

NIT

NH

This form needs to be completed if the Hazardous Material  
that you want to purchase is not authorized on your T-SHML.

SHIP NAME: USS CHIEF

HULL NUMBER: MCM-14

TYCOM: SURFPAC

UIC: 21902

Serial Number: S133

AIRCRAFT RELATED: ☐ Yes ☒ No

I. JUSTIFICATION (To include equipment/application this material is to be used on):  
MATERIAL IS REQUIRED FOR LASERJET PRINTERS ONBOARD USS CHIEF.

CURRENTLY USED NSN OR PRODUCT TO BE REPLACED (if applicable): 7510016309330

II. TECHNICAL DATA

MAINTENANCE INDEX PAGE (MIP) #: NA

MAINTENANCE REQUIREMENT CARD (MRC #: NA

APL OR AEL: NA

TECH MANUAL: NA

REV.

ESTIMATED YEARLY REQUIREMENT: 20

III. MANUFACTURER DATA (If requested NSN is provided proceed to section IV)

NSN: 7510-01-630-9330

MANUFACTURER: HEWLETT-PACKARD COMPANY

PHONE: 650-857-1501

ITEM OR TRADE NAME: CARTRIDGE, TONER

PART NUMBER OR SPECIFICATION: CE390A

UNIT OF ISSUE: EA

UNIT OF MEASURE: BX

IV. ENDORSEMENTS

REQUESTORS NAME: WHITE, NICHOLAS L

RANK: E5

EMAIL: NICHOLAS.WHITE@MCM14.NAVY.MIL

DATE PREPARED: 15JAN2015

COMMANDER OR DESIGNEE NAME: CORREIA, JAMES

RANK: O4

EMAIL: CO@MCM14.NAVY.MIL

DATE: 15JAN2015

SIGNATURE: 

CO's signature denotes acceptance of all liabilities associated with  
the procurement and use of this non-SHML hazardous material

Electronic submission of SHML Feedback Report/s constitutes CO's approval

Mail to:

Commanding Officer, NAVSUP Weapons Systems Support

P.O. Box 2020, Code M0772.22

5450 Carlisle Pike, Mechanicsburg PA 17055-0788

Fax: DSN 430-3480 or COM 717-605-3480

Email: wraps.prime.fct@navy.mil



**Celona, Michael J CTV NAVSUP WSS, M077**

---

**From:** White, Nicholas LS2 SUP MCM14 <Nicholas.White@mcm14.navy.mil>  
**Sent:** Wednesday, February 04, 2015 2:21  
**To:** wraps.prime.fct  
**Cc:** SUPPO  
**Subject:** SHML SFR ISO USS Chief  
**Attachments:** USS CHEIF FBR'S.pdf  
**Signed By:** nicholas.white@mcm2.navy.mil

Good Morning,

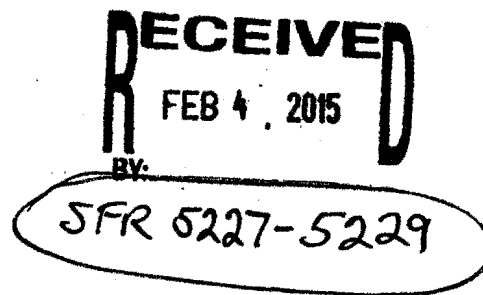
Please see attached feedback reports for USS Chief

Very Respectfully,

LS2 White, Nicholas L.

USS Chief MCM 14

315-252-1212



## **Celona, Michael J CIV NAVSUP WSS, M077**

---

**From:** Celona, Michael J CIV NAVSUP WSS, M077  
**Sent:** Thursday, February 05, 2015 10:51  
**To:** Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350  
**Cc:** USS CHIEF (chf@saltsmail.salts.navy.mil); 'White, Nicholas LS2 SUP MCM14'; SUPPO; 'COMNAVAIRPAC'; 'COMNAVAIRLANT (aor@saltsmail.salts.navy.mil)'; 'COMNAVSURFLANT'; 'COMNAVSURFPAC'; Celona, Michael J CIV NAVSUP WSS, M077; Bottinelli, Jehdia CIV NAVSUP GLS; Houde, Jennifer S CIV NAVSUP WSS, M077; Hammerer, Mary Q CIV NAVAIR 6.7.1.4; Ichniowski, Matthew CIV nawcad, 6.0; Wilson, James N CIV NAVSUP FLC Norfolk, 401.2; Armacost, Andrew H CIV MSC, N46; Siebor, Adam CIV NAVSUP FLC Norfolk, 401.2; Kurylo, Timothy S CIV NSWCCD Philadelphia, 6350; Mukherjee, Sandi CIV NAVSUP WSS, M077  
**Subject:** USS CHIEF: SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT/S (SFR's) #5227-5229  
**Signed By:** mike.celona@navy.mil

**From:** Commander, NAVSUP Weapon Systems Support, Mechanicsburg (NWSS-M), Pa., Code N242  
**To:** Naval Surface Warfare Center, Carderock Division-Ships Systems Engineering Station (NSWCCD-SSES), Code 6350

**Copy to:** Commander, Naval Surface Force, U.S. Atlantic Fleet (COMNAVSURFLANT), Code N411B  
Commander, Naval Surface Force, U.S. Pacific Fleet (COMNAVSURFPAC), Code N931  
Commander, Naval Air Force, U.S. Atlantic Fleet (COMNAVAIRLANT), Code N412A  
Commander, Naval Air Force, U.S. Pacific Fleet (COMNAVAIRPAC), Code 80

**Subj:** FORWARDING OF SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT/S (SFR's)

**Attn:** Frank Iaconianni

**Ref:** (a) NAVSUP PUB P-485 SFR PROCESS  
(b) NWSS-M Point Of Contact (POC): Mike Celona, Code N242, Tel: (717) 605-8319 or DSN: 430-8319. Fax: 717-605-3480 or DSN: 430-3480  
(c) (SFR #5227), WATER SAMPLING TEST REAGENT, COLIFORM, (Part# WP020), NSN: 6630-01-362-8299  
(d) (SFR #5228), SAMPLE TEST GAS, (Part# N-64083 & SG-2002-01201), NSN: 6665-01-415-4955  
(e) (SFR #5229), CARTRIDGE, TONER, (Part# CE390A), NSN: 7510-01-630-9330  
(f) POC for the USS Chief (MCM-14): LS2 Nicholas L. White  
(g) NSWCCD-SSES POC, Frank Iaconianni, Tel: (215) 897-7494, DSN: 430-7494

1. Per ref (a), ref (b) received ref (c) through (e) SFR's from ref (f). Each SFR is reviewed and is assigned an SFR number by ref (b) and processed through the Hardware Systems Command (HSC) Technical Authorities (TA) ref (b) and (g). The following information provides the current status of your SFR's.

Ref (b) has forwarded your SFR's to ref (g) for further review and analysis. Upon ref (g) recommendation, NSWCCD TA will issue an authorization decision. At that time, ref (b) will advise all POC's of the final analysis (approval/disapproval) of ref (g) review. When the results of this analysis is complete, the SHML/T-SHML will be modified by ref (b) to reflect the appropriate information on its next update.

2. Our point of contact in the Asset Protection-Pollution Prevention and PHS&T Division is Mr. Mike Celona, Code N242, DSN: 430-8319 or (717) 605-8319. Fax: DSN 430-3480 or (717) 605-3480.



## DEPARTMENT OF THE NAVY

### NAVSUP WEAPON SYSTEMS SUPPORT

700 ROBBINS AVENUE  
PHILADELPHIA PA 19111-5098

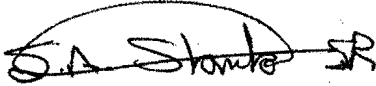
5450 CARLISLE PIKE - PO BOX 2020  
MECHANICSBURG PA 17055-0788

COM & FTS 717-605-8319  
DSN & EXT 430-8319  
FAX # 717-605-3480  
IN REPLY REFER TO:  
4030  
Ser N242/018  
5 February 2015

From: Commander, NAVSUP Weapon Systems Support, Mechanicsburg (NWSS-M),  
Pa., Code M0772  
To: Commanding Officer, Naval Surface Warfare Center, Carderock  
Division-Ship Systems Engineering Station (NSWCCD-SSSES),  
Code 635  
Subj: FORWARDING OF SHIPBOARD HAZARDOUS MATERIAL LIST (SHML) FEEDBACK  
REPORT/S (SFR's)

Encl: (1) SHML SFR's (SFR# 5227-5229)

1. Enclosure (1) contains a packet of ~~THREE~~ (3) SFR's (SFR# 5227-5229) for your review/recommendation.
2. Our point of contact in the Asset Protection-Pollution Prevention and PHS&T Division is Mr. Mike Celona, Code 0772.23, DSN 430-8319 for (717) 605-8319. Fax: DSN 430-3480 or (717) 605-3480.

  
For Sandi Mukherjee  
By Direction

## **Celona, Michael J CIV NAVSUP WSS, M077**

---

**From:** Celona, Michael J CIV NAVSUP WSS, M077  
**Sent:** Tuesday, February 10, 2015 10:40  
**To:** USS GRAVELY (agn@saltsmail.salts.navy.mil); 'Bolt, Brandon L. LS2 DDG 107'; Kekeh, Yao K. LSC DDG 107; Mobel, Pearlyn C. LS1 DDG 107; Corbett, William C. QM1 DDG 107  
**Cc:** 'CRAIG COOLEY (Craig.Cooley@supshipba.navy.mil)' (Craig.Cooley@supshipba.navy.mil); 'COMNAVAIRPAC'; 'COMNAVAIRLANT (aor@saltsmail.salts.navy.mil)'; 'COMNAVSURFLANT'; 'COMNAVSURFPAC'; Celona, Michael J CIV NAVSUP WSS, M077; Bottinelli, Jehdia CIV NAVSUP GLS; Houde, Jennifer S CIV NAVSUP WSS, M077; Hammerer, Mary Q CIV NAVAIR 6.7.1.4; Ichniowski, Matthew CIV nawcad, 6.0; Wilson, James N CIV NAVSUP FLC Norfolk, 401.2; Armacost, Andrew H CIV MSC, N46; Siebor, Adam CIV NAVSUP FLC Norfolk, 401.2; Kurylo, Timothy S CIV NSWCCD Philadelphia, 6350; Mukherjee, Sandi CIV NAVSUP WSS, M077; Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350  
**Subject:** USS GRAVELY: SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR) #5230 (FINAL ANSWER)  
**Signed By:** mike.celona@navy.mil

**From:** Commander, NAVSUP Weapon Systems Support, Mechanicsburg (NWSS-M), Pa., Code N242  
**To:** Commander, USS Gravelly (DDG-107)

**Copy to:** Commander, Naval Surface Force, U.S. Atlantic Fleet (COMNAVSURFLANT), Code N411B  
Commander, Naval Surface Force, U.S. Pacific Fleet (COMNAVSURFPAC), Code N931  
Commander, Naval Air Force, U.S. Atlantic Fleet (COMNAVAIRLANT), Code N412A  
Commander, Naval Air Force, U.S. Pacific Fleet (COMNAVAIRPAC), Code 80

**Subj:** FORWARDING OF SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR)

**Attn:** LS2 (SW/IDW/AW) Bolt

**Ref:** (a) NAVSUP PUB P-485 SFR PROCESS  
(b) NWSS-M Point Of Contact (POC): Mike Celona, Code N242, Tel: (717) 605-8319 or DSN: 430-8319. Fax: 717-605-3480 or DSN: 430-3480  
(c) (SFR #5230) ANTISEIZE COMPOUND, NICKEL BASED, (Part# LOCTITE LB771 NICKLE GRADE ANTI-SEIZE, ITEM # 77164), NSN: 8030-01-244-7179  
(d) POC for the USS Gravelly (DDG-107): LS2 (SW/IDW/AW) Bolt  
(e) NSWCCD-SSES POC, Frank Iaconianni, Tel: (215) 897-7494, DSN: 430-7494

1. Per ref (a), ref (b) received ref (c) SFR from ref (d). Each SFR is reviewed and is assigned an SFR number by ref (b) and processed through the Hardware Systems Command (HSC) Technical Authorities (TA) ref (b) and (e). The following information provides the current status of your SFR.

2. Concerning ref (c) SFR# 5230 per ref (e):

USS Gravelly (DDG-107)

Mike,

SFR 5230: The SFR requested material (NSN: 8030-01-244-7179; Antiseize Compound) is required per MIP 4431/013, MRC FM66, and SPMIG [17876] onboard DDG-107. The NSN is already listed on the DDG Type SHML with an AOB Code of R. The SHML restriction statement authorizes use for the requested MRC, but as written is ambiguous. Please change to "Use IAW MRC'S B8TM, F3YQ, F3YR & FM66, or for Pipe Jumper Hose System Kits, Replaces LLH777536."

V/R,

Frank J. Iaconianni, Chemist  
NAVSEA Warfare Center Code 635  
Hazardous Materials Control and Management  
215-897-7494  
DSN: 443-7494  
frank.iaconianni@navy.mil

Therefore, NSN 8030-01-244-7179 IS APPROVED FOR USE and has been updated in the Master SHML and the DDG T-SHML with an AOB code of "R" (RESTRICTED FOR USE IAW MRC'S B8TM, F3YQ, F3YR & FM66, OR FOR PIPE JUMPER HOSE SYSTEM KITS, REPLACES LLH777536).

3. Our point of contact in the Asset Protection-Pollution Prevention and PHS&T Division is Mr. Mike Celona, Code N242, DSN: 430-8319 or (717) 605-8319. Fax: DSN 430-3480 or (717) 605-3480.

**Celona, Michael J CIV NAVSUP WSS, M077**

---

**From:** Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350  
**Sent:** Monday, February 09, 2015 8:59  
**To:** Celona, Michael J CIV NAVSUP WSS, M077  
**Cc:** Stanko, Scott CIV NAVSUP WSS, M077; Shull-Archer, Karen E CIV NSWCCD Philadelphia, Code 635; He, Marianne C CIV NSWCCD Philadelphia, 6350  
**Subject:** SFR 5230  
**Signed By:** frank.iaconianni@navy.mil

USS Gravelly (DDG-107)

Mike,

*good R*

SFR 5230: The SFR requested material (NSN: 8030-01-244-7179; Antiseize Compound) is required per MIP 4431/013, MRC FM66, and SPMIG [17876] onboard DDG-107. The NSN is already listed on the DDG Type SHML with an AOB Code of R. The SHML restriction statement authorizes use for the requested MRC, but as written is ambiguous. Please change to "Use IAW MRC'S B8TM, F3YQ, F3YR & FM66, or for Pipe Jumper Hose System Kits, Replaces LLH777536."

V/R,

Frank J. Iaconianni, Chemist  
NAVSEA Warfare Center Code 635  
Hazardous Materials Control and Management  
215-897-7494  
DSN: 443-7494  
frank.iaconianni@navy.mil

*ALL T-SHMLS yes except  
LH & SB.*

*5/77/H*

*90 (R)*

## ORIGINATOR:

NAVSUP WSS-MECHANICSBURG, PA, CODE N242, BUILDING 312, TEL: 717-605-8319, DSN: 430-8319  
FAX: 717-605-3480, DSN: 430-3480

REC'D AT NAVSUP WSS: 2/5/2015 FPO#: AE09570 - 1221 UIC#: 23164 TYCOM: SURFLANT

TO CODE:	RELEASE DATE:	INITIALS	<b>SUBJECT:</b> SHIP HAZARDOUS MATERIAL LIST (SHML FEEDBACK REPORT (SFR))  <b>SFR #</b> 5230  <b>ATTACHED FROM (SHIP):</b> USS GRAVELY (DDG-107)  <b>PRODUCT NAME:</b> ANTISEIZE COMPOUND, NICKEL BASED  <b>DATE ON SFR:</b> 1/13/2015
NAVSUP WSS	2/5/2015	MC	<b>NSN/NIIN:</b> 8030-01-244-7179 <b>CAGE:</b> 05972 <b>PART NUMBER/DRAWING/SPECIFICATION:</b> LOCTITE LB771 NICKLE GRADE ANTI-SEIZE, ITEM# 77164 <b>SHML STATUS:</b> (NIS=Not in SHML; A=Authorized; P= Prohibited; R=Restricted; O=Obsolete; N=Not Determined) R
ISEA			<b>MSDS NUMBER:</b> (NIH=Not In HMIRS) DFLNP <b>MIP:</b> 4431/013 <b>MRC:</b> 24 FM66 N <b>MIP/MRC:</b> NONE <b>APL:</b> NONE <b>AEL:</b> NONE <b>APL/AEL:</b> NONE
LCM/ISEA			<b>TECHNICAL MANUAL:</b> NAVSHIP 0966-005-1010  <b>AIRCRAFT APPLICATIONS:</b> NO
NAVSUP WSS			<b>RELATED SFR's:</b> <del>NONE</del> See SFR # 5059  <b>NOTES:</b> 5/T7/H 16 OUNCE CAN.  <b>REMARKS IN SHML STATES THE FOLLOWING:</b> "USE ONLY IAW MRC'S B8TM, F3YQ, F3YR & FM66, PIPE JUMPER HOSE SYSTEM KITS, REPLACES LLH777536".



Current Date: 1/13/2015

**RECEIVED**  
FEB 5, 2015  
BY: SFR 5230

**SHIP'S HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR)**

Master R  
DDG - (R)

This form needs to be completed if the Hazardous Material that you want to purchase is not authorized on your T-SHML

SHIP NAME: USS GRAVELY

HULL NUMBER: DDG 107

TYCOM: SURFLANT

VIC: V23164

Serial Number:

AIRCRAFT RELATED: ☐ Yes ☒ No

**I. JUSTIFICATION** (To include equipment/application this material is to be used on):  
Antiseize used on searchlight flange retaining screws.

*See Remarks on SHML - Differ!*

CURRENTLY USED NSN OR PRODUCT TO BE REPLACED (if applicable):

**II. TECHNICAL DATA**

*See SFR 5059*

MAINTENANCE INDEX PAGE (MIP) #: 4431/013

MAINTENANCE REQUIREMENT CARD (MRC #: 24 FM66 N

APL OR AEL: N/A

TECH MANUAL: NAVSHIP 0966-005-1010

REV.

ESTIMATED YEARLY REQUIREMENT: N/A

**III. MANUFACTURER DATA** (If requested NSN is provided proceed to section IV)

9B NSN: 8030-01-244-7179

MANUFACTURER: Various *HEUKEL CORP*

PHONE: 860-571-5100

*Cage 05972*

ITEM OR TRADE NAME: [17876] ANTISEIZE COMPOUND, NICKEL BASED

PART NUMBER OR SPECIFICATION: *LOCTITE LB 771 NICKLE*  
*GRADE ANTI-SEIZE, ITEM # 77164*

UNIT OF ISSUE: CN

UNIT OF MEASURE: *160Z*

*updated MSDS sent to HM*

*DFLNP*

*5/17/14*

**IV. ENDORSEMENTS**

*GREY PASTE*

*TICKET # 04761896*

REQUESTORS NAME: QM1 CORBETT, WILLIAM

RANK: E6

EMAIL: corbetwc@ddg107.navy.mil

DATE PREPARED: 1/13/2015

COMMANDER OR DESIGNEE NAME: CDR AMBROSE

RANK: O5

EMAIL: ambrosea@ddg107.navy.mil

DATE: 1/13/2015

SIGNATURE: *[Signature]*

CO's signature denotes acceptance of all liabilities associated with the procurement and use of this non-SHML hazardous material

Electronic submission of SHML Feedback Report/s constitutes CO's approval

Mail to:

Commanding Officer, NAVSUP Weapons Systems Support  
P.O. Box 2020, Code M0772.22  
5450 Carlisle Pike, Mechanicsburg PA 17055-0788  
Fax: DSN 430-3480 or COM 717-605-3480  
Email: wraps.prime.fct@navy.mil

**Celona, Michael J CIV NAVSUP WSS, M077**

---

**From:** Bolt, Brandon L LS2 DDG 107 <boltbl@ddg107.navy.mil>  
**Sent:** Thursday, February 05, 2015 9:17  
**To:** Celona, Michael J CIV NAVSUP WSS, M077  
**Cc:** Kekeh, Yao K LSC DDG 107; Mobel, Pearlyn C. LS1 DDG 107; Corbett, William C. QM1 DDG 107  
**Subject:** SFR  
**Attachments:** SFR\_Antisieze.pdf

Mike Celona,

Can you please process the attached SFR for USS Gravely? Thank you.

V/r

LS2(SW/IDW/AW) Bolt

USS Gravely DDG 107

HAZMAT Supervisor

**RECEIVED**  
FEB 5, 2015  
BY SFR 5230

## **Celona, Michael J CIV NAVSUP WSS, M077**

---

**From:** Celona, Michael J CIV NAVSUP WSS, M077  
**Sent:** Thursday, February 05, 2015 14:04  
**To:** Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350  
**Cc:** USS GRAVELY (agn@saltsmail.salts.navy.mil); 'CRAIG COOLEY (Craig.Cooley@supshipba.navy.mil)' (Craig.Cooley@supshipba.navy.mil); 'Bolt, Brandon L. LS2 DDG 107'; Kekeh, Yao K. LSC DDG 107; Mobel, Pearlyn C. LS1 DDG 107; Corbett, William C. QM1 DDG 107; 'COMNAVAIRPAC'; 'COMNAVAIRLANT (aor@saltsmail.salts.navy.mil)'; 'COMNAVSURFLANT'; 'COMNAVSURFPAC'; Celona, Michael J CIV NAVSUP WSS, M077; Bottinelli, Jehdia CIV NAVSUP GLS; Houde, Jennifer S CIV NAVSUP WSS, M077; Hammerer, Mary Q CIV NAVAIR 6.7.1.4; Ichniowski, Matthew CIV nawcad, 6.0; Wilson, James N CIV NAVSUP FLC Norfolk, 401.2; Armacost, Andrew H CIV MSC, N46; Siebor, Adam CIV NAVSUP FLC Norfolk, 401.2; Kurylo, Timothy S CIV NSWCCD Philadelphia, 6350; Mukherjee, Sandi CIV NAVSUP WSS, M077  
**Subject:** USS GRAVELY: SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR) #5230

**From:** Commander, NAVSUP Weapon Systems Support, Mechanicsburg (NWSS-M), Pa., Code N242  
**To:** Naval Surface Warfare Center, Carderock Division-Ships Systems Engineering Station (NSWCCD-SSES), Code 6350

**Copy to:** Commander, Naval Surface Force, U.S. Atlantic Fleet (COMNAVSURFLANT), Code N411B  
Commander, Naval Surface Force, U.S. Pacific Fleet (COMNAVSURFPAC), Code N931  
Commander, Naval Air Force, U.S. Atlantic Fleet (COMNAVAIRLANT), Code N412A  
Commander, Naval Air Force, U.S. Pacific Fleet (COMNAVAIRPAC), Code 80

**Subj:** FORWARDING OF SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR)

**Attn:** Frank Iaconianni

**Ref:** (a) NAVSUP PUB P-485 SFR PROCESS  
(b) NWSS-M Point Of Contact (POC): Mike Celona, Code N242, Tel: (717) 605-8319 or DSN: 430-8319. Fax: 717-605-3480 or DSN: 430-3480  
(c) (SFR #5230) ANTISEIZE COMPOUND, NICKEL BASED, (Part# LOCTITE LB771 NICKLE GRADE ANTI-SEIZE, ITEM # 77164), NSN: 8030-01-244-7179  
(d) POC for the USS Gravelly (DDG-107): LS2 (SW/IDW/AW) Bolt  
(e) NSWCCD-SSES POC, Frank Iaconianni, Tel: (215) 897-7494, DSN: 430-7494

1. Per ref (a), ref (b) received ref (c) SFR from ref (d). Each SFR is reviewed and is assigned an SFR number by ref (b) and processed through the Hardware Systems Command (HSC) Technical Authorities (TA) ref (b) and (e). The following information provides the current status of your SFR.

Ref (b) has forwarded your SFR to ref (e) for further review and analysis. Upon ref (e) recommendation, NSWCCD TA will issue an authorization decision. At that time, ref (b) will advise all POC's of the final analysis (approval/disapproval) of ref (e) review. When the results of this analysis is complete, the SHML/T-SHML will be modified by ref (b) to reflect the appropriate information on its next update.

2. Our point of contact in the Asset Protection-Pollution Prevention and PHS&T Division is Mr. Mike Celona, Code N242, DSN: 430-8319 or (717) 605-8319. Fax: DSN 430-3480 or (717) 605-3480.



## DEPARTMENT OF THE NAVY

### NAVSUP WEAPON SYSTEMS SUPPORT

700 ROBBINS AVENUE  
PHILADELPHIA PA 19111-5098


5450 CARLISLE PIKE - PO BOX 2020  
MECHANICSBURG PA 17055-0788

COM & FTS 717-605-8319  
DSN & EXT 430-8319  
FAX # 717-605-3480  
IN REPLY REFER TO:  
4030  
Ser N242/019  
5 February 2015

From: Commander, NAVSUP Weapon Systems Support, Mechanicsburg (NWSS-M),  
Pa., Code M0772  
To: Commanding Officer, Naval Surface Warfare Center, Carderock  
Division-Ship Systems Engineering Station (NSWCCD-SSES),  
Code 635  
Subj: FORWARDING OF SHIPBOARD HAZARDOUS MATERIAL LIST (SHML) FEEDBACK  
REPORT (SFR)

Encl: (1) SHML SFR (SFR# 5230)

1. Enclosure (1) contains a packet of one (1) SFR (SFR# 5230) for your review/recommendation.
2. Our point of contact in the Asset Protection-Pollution Prevention and PHS&T Division is Mr. Mike Celona, Code 0772.23, DSN 430-8319 for (717) 605-8319. Fax: DSN 430-3480 or (717) 605-3480.

  
For Sandi Mukherjee  
By Direction

## **Celona, Michael J CIV NAVSUP WSS, M077**

---

**From:** Celona, Michael J CIV NAVSUP WSS, M077  
**Sent:** Thursday, February 12, 2015 13:09  
**To:** USS INDEPENDENCE (LCS-2) (ajj@saltsmail.salts.navy.mil); laura.l.powell@saic.com; Jordan, Sharron Y CIV NAVSUP FLC San Diego, Code 441; Klimas, Robert R CIV NSWCCD Philadelphia, 6350; Fitzgerald, Margaret M CIV NAVAIR, AVIATION/SHIP INTEGRATION; Chennaux, Brandon S CIV NSWC PCD  
**Cc:** 'COMNAVAIRPAC'; 'COMNAVAIRLANT (aor@saltsmail.salts.navy.mil)'; 'COMNAVSURFLANT'; 'COMNAVSURFPAC'; Celona, Michael J CIV NAVSUP WSS, M077; Bottinelli, Jehdia CIV NAVSUP GLS; Houde, Jennifer S CIV NAVSUP WSS, M077; Hammerer, Mary Q CIV NAVAIR 6.7.1.4; Ichniowski, Matthew CIV nawcad, 6.0; Wilson, James N CIV NAVSUP FLC Norfolk, 401.2; Armacost, Andrew H CIV MSC, N46; Siebor, Adam CIV NAVSUP FLC Norfolk, 401.2; Kurylo, Timothy S CIV NSWCCD Philadelphia, 6350; Mukherjee, Sandi CIV NAVSUP WSS, M077; Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350  
**Subject:** USS INDEPENDENCE: SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT/S (SFR's) #5231-5233 (FINAL ANSWER)  
**Signed By:** mike.celona@navy.mil

**From:** Commander, NAVSUP Weapon Systems Support, Mechanicsburg (NWSS-M), Pa., Code N242  
**To:** Commander, USS Independence (LCS-2)

**Copy to:** Commander, Naval Surface Force, U.S. Atlantic Fleet (COMNAVSURFLANT), Code N411B  
Commander, Naval Surface Force, U.S. Pacific Fleet (COMNAVSURFPAC), Code N931  
Commander, Naval Air Force, U.S. Atlantic Fleet (COMNAVAIRLANT), Code N412A  
Commander, Naval Air Force, U.S. Pacific Fleet (COMNAVAIRPAC), Code 80

**Subj:** FORWARDING OF SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT/S (SFR's)

**Attn:** Laura L. Powell, SAIC

**Ref:** (a) NAVSUP PUB P-485 SFR PROCESS  
(b) NWSS-M Point Of Contact (POC): Mike Celona, Code N242, Tel: (717) 605-8319 or DSN: 430-8319. Fax: 717-605-3480 or DSN: 430-3480  
(c) (SFR #5231), CYLINDER, COMPRESSED GAS, NITROGEN, TECHNICAL, (Part# RR-C-901C), NSN: 8120-01-362-6386  
(d) (SFR #5232), LOCTITE SUPER GLUE ULTRA GEL CONTROL, (Part# 1363589), NSN: None  
(e) (SFR #5233), LOCTITE SUPER GLUE ULTRA LIQUID CONTROL, (Part# 1647358), NSN: None  
(f) POC for the USS Independence (LCS-2): Laura L. Powell, SAIC  
(g) NSWCCD-SSES POC, Frank Iaconianni, Tel: (215) 897-7494, DSN: 430-7494

1. Per ref (a), ref (b) received ref (c) through (e) SFR's from ref (f). Each SFR is reviewed and is assigned an SFR number by ref (b) and processed through the Hardware Systems Command (HSC) Technical Authorities (TA) ref (b) and (g). The following information provides the current status of your SFR's.

2. Concerning ref (c) SFR# 5231 per ref (g):

USS Independence (LCS-2)

Mike,

SFR 5231: The SFR requested material (NSN: 8120-01-362-6386; Cylinder, Compressed Gas, Nitrogen, Technical) was requested for use to recharge the Emergency Recovery System on the Remote Multi-Mission Vehicle. A search of the SHML did not identify any suitable substitutes, so please add the requested item to the Master and LCS Type SHML with an AOB Code of R, MMI Code of N, and the remarks "Restricted to use with the LCS Remote Multi-Mission Vehicle."

V/R,

Frank J. Iaconianni, Chemist  
NAVSEA Warfare Center Code 635  
Hazardous Materials Control and Management  
215-897-7494  
DSN: 443-7494  
frank.iaconianni@navy.mil

Therefore, NSN: 8120-01-362-6386 IS APPROVED FOR USE and has been added to the Master SHML and the LCS T-SHML with an Allowed On Board (AOB) code of "R" (RESTRICTED FOR USE WITH THE LCS REMOTE MULTI-MISSION VEHICLE).

3. Concerning ref (d) SFR# 5232 per ref (g):

SFR 5232: The SFR requested material (NSN: None; Loctite Super Glue Ultra Gel Control) was requested for use to attach micro vanes to the mast of the Remote Multi-Mission Vehicle. The SFR suggested that the requirement is temporary pending determination of the vane configuration, and discussion with the requester confirmed that. Therefore, request that the item be granted temporary authorization for LCS procurement and storage, not to exceed one year, but that it not yet be submitted for NSN assignment or SHML addition. Recommend also that the requester notify Code 635 (POC: Marianne He or Frank Iaconianni) as soon as it is known whether the item, or similar adhesive, will be needed on a long term basis. At that time it can be determined if a suitable adhesive already exists on the SHML, or if NSN assignment is required.

Therefore, "Loctite Super Glue Ultra Gel Control" has been granted TEMPORARY AUTHORIZATION for LCS procurement and storage, not to exceed one year. Since it is a temporary approval for use, this product will not be given an NSN nor will it be added to the SHML.

4. Concerning ref (e) SFR# 5233 per ref (g):

SFR 5233: The SFR requested material (NSN: None; Loctite Super Glue Ultra Liquid Control) was requested for use to attach micro vanes to the mast of the Remote Multi-Mission Vehicle. The SFR suggested that the requirement is temporary pending determination of the vane configuration, and discussion with the requester confirmed that. Therefore, request that the item be granted temporary authorization for LCS procurement and storage, not to exceed one year, but that it not yet be submitted for NSN assignment or SHML addition. Recommend also that the requester notify Code 635 (POC: Marianne He or Frank Iaconianni) as soon as it is known whether the item, or similar adhesive,

will be needed on a long term basis. At that time it can be determined if a suitable adhesive already exists on the SHML, or if NSN assignment is required.

Therefore, "Loctite Super Glue Ultra Liquid Control" has been granted TEMPORARY AUTHORIZATION for LCS procurement and storage, not to exceed one year. Since it is a temporary approval for use, this product will not be given an NSN nor will it be added to the SHML.

5. Our point of contact in the Asset Protection-Pollution Prevention and PHS&T Division is Mr. Mike Celona, Code N242, DSN: 430-8319 or (717) 605-8319. Fax: DSN 430-3480 or (717) 605-3480.



**Celona, Michael J CIV NAVSUP WSS, M077**

---

**From:** Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350  
**Sent:** Thursday, February 12, 2015 10:28  
**To:** Celona, Michael J CIV NAVSUP WSS, M077  
**Cc:** Stanko, Scott CIV NAVSUP WSS, M077; Shull-Archer, Karen E CIV NSWCCD Philadelphia, Code 635; He, Marianne C CIV NSWCCD Philadelphia, 6350; Klimas, Robert R CIV NSWCCD Philadelphia, 6350  
**Subject:** SFR 5231 - 5233  
**Signed By:** frank.iaconianni@navy.mil

USS Independence (LCS-2)

Mike,

good R W/G3/H  
LC/OT

SFR 5231: The SFR requested material (NSN: 8120-01-362-6386; Cylinder, Compressed Gas, Nitrogen, Technical) was requested for use to recharge the Emergency Recovery System on the Remote Multi-Mission Vehicle. A search of the SHML did not identify any suitable substitutes, so please add the requested item to the Master and LCS Type SHML with an AOB Code of R, MMI Code of N, and the remarks "Restricted to use with the LCS Remote Multi-Mission Vehicle."

SFR 5232: The SFR requested material (NSN: None; Loctite Super Glue Ultra Gel Control) was requested for use to attach micro vanes to the mast of the Remote Multi-Mission Vehicle. The SFR suggested that the requirement is temporary pending determination of the vane configuration, and discussion with the requester confirmed that. Therefore, request that the item be granted temporary authorization for LCS procurement and storage, not to exceed one year, but that it not yet be submitted for NSN assignment or SHML addition. Recommend also that the requester notify Code 635 (POC: Marianne He or Frank Iaconianni) as soon as it is known whether the item, or similar adhesive, will be needed on a long term basis. At that time it can be determined if a suitable adhesive already exists on the SHML, or if NSN assignment is required.

SFR 5233: The SFR requested material (NSN: None; Loctite Super Glue Ultra Liquid Control) was requested for use to attach micro vanes to the mast of the Remote Multi-Mission Vehicle. The SFR suggested that the requirement is temporary pending determination of the vane configuration, and discussion with the requester confirmed that. Therefore, request that the item be granted temporary authorization for LCS procurement and storage, not to exceed one year, but that it not yet be submitted for NSN assignment or SHML addition. Recommend also that the requester notify Code 635 (POC: Marianne He or Frank Iaconianni) as soon as it is known whether the item, or similar adhesive, will be needed on a long term basis. At that time it can be determined if a suitable adhesive already exists on the SHML, or if NSN assignment is required.

V/R,

Frank J. Iaconianni, Chemist  
NAVSEA Warfare Center Code 635  
Hazardous Materials Control and Management  
215-897-7494  
DSN: 443-7494  
frank.iaconianni@navy.mil

**Celona, Michael J CIV NAVSUP WSS, M077**

**From:** Powell, Laura L <LAURA.L.POWELL@saic.com>  
**Sent:** Friday, February 06, 2015 10:41  
**To:** Celona, Michael J CIV NAVSUP WSS, M077  
**Cc:** Jordan, Sharron Y CIV NAVSUP FLC San Diego, Code 441; Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350; Kurylo, Timothy S CIV NSWCCD Philadelphia, 6350; Mukherjee, Sandi CIV NAVSUP WSS, M077; Stanko, Scott CIV NAVSUP WSS, M077; Fitzgerald, Margaret M CIV NAVAIR, AVIATION/SHIP INTEGRATION; Chennaux, Brandon S CIV NSWC PCD  
**Subject:** RE: SFR Process  
**Attachments:** Loctite Liquid 1647358\_SFR\_06Feb2015.docx; msds\_Super Glue Loctite.pdf; Loctite Ultra Liquid Tech Data Sheet.pdf; NTC 567A-14-N1480 RMMV 9 Microvanes.pdf; PrototypeMicrovaneInstallationGuide\_v1.docx  
**Signed By:** LAURA.L.POWELL@saic.com

Mike,

Per our discussion this morning, attached is the first of three SFRs/tech data that I will be submitting. This is for the Loctite Super Glue Ultra Liquid Control. Thank you for your help and let me know if you need anything additional.

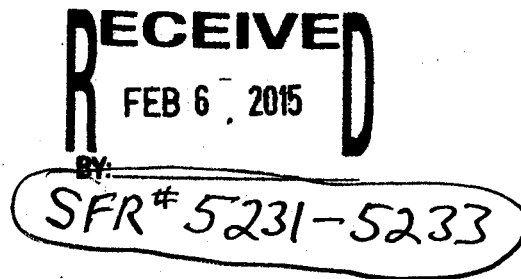
*ALSO INCL. IS SFR FOR NITROGEN CYLINDER*

Vr,

Laura L. Powell | SAIC  
Logistics Analyst I | Defense Maritime Solutions  
phone: 850-249-4031  
laura.l.powell@saic.com

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*Copy Bob K. Lewis  
on all correspondence.*



-----Original Message-----

**From:** Celona, Michael J CIV NAVSUP WSS, M077 [mailto:mike.celona@navy.mil]  
**Sent:** Friday, February 06, 2015 8:16 AM  
**To:** Powell, Laura L.  
**Cc:** Jordan, Sharron Y CIV NAVSUP FLC San Diego, Code 441; Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350; Kurylo, Timothy S CIV NSWCCD Philadelphia, 6350; Mukherjee, Sandi CIV NAVSUP WSS, M077; Stanko, Scott CIV NAVSUP WSS, M077; Fitzgerald, Margaret M CIV NAVAIR, AVIATION/SHIP INTEGRATION; Chennaux, Brandon S CIV NSWC PCD  
**Subject:** RE: SFR Process

Laura,

**Celona, Michael J CIV NAVSUP WSS, M077**

---

**From:** Chennaux, Brandon S CIV NSWC PCD  
**Sent:** Friday, February 06, 2015 9:15  
**To:** 'Powell, Laura L'; Celona, Michael J CIV NAVSUP WSS, M077  
**Cc:** Jordan, Sharron Y CIV NAVSUP FLC San Diego, Code 441; Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350; Kurylo, Timothy S CIV NSWCCD Philadelphia, 6350; Mukherjee, Sandi CIV NAVSUP WSS, M077; Stanko, Scott CIV NAVSUP WSS, M077; Fitzgerald, Margaret M CIV NAVAIR, AVIATION/SHIP INTEGRATION  
**Subject:** RE: SFR Process  
**Attachments:** NTC%20567A-13-N1330%20RMMV%207%20Mast%20Lower%20Assy%207417613.pdf; NTC%20567A-13-N1329%20RMMV%2010%20Mast%20Lower%20Assy%207417613.pdf; PrototypeMicrovaneInstallationGuide\_v1.docx  
**Signed By:** BRANDON.CHENNAUX@NAVY.MIL

Mike,

I wanted to discuss the requirement for the Loctite Ultra gel and Ultra Liquid control adhesives for the Micro vanes on the mast of our vehicle.

We require the adhesives to attached the micro vanes to the mast of our vehicle, as these vanes break up the water flow around the mast reducing torque and improving vehicle performance. Unfortunately during launch and recovery some of these vanes get knocked off and require replacement.

I have attached documented Not To Configuration forms documenting the requirement for the vanes. The Manufacturer is still trying to determine the optimal size and separation of the vanes, that is why we do not have the vanes as part of our baseline configuration.

If you require more information/justification, please let me know

V/r  
Brandon

Brandon Chennaux  
RMS ILSM  
Mission Package Product Support Branch (A34)  
Naval Surface Warfare Center, Panama City Division  
PH (850) 636-6315  
Cell (850) 250-7229  
436-6315  
Brandon.chennaux@navy.mil

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I am not authorized to make commitments of government resources. The information being transmitted does not constitute a financial commitment or cost to the terms or conditions of any contract. Authorization can only be granted by warranted contracting officer.

**Celona, Michael J CIV NAVSUP WSS, M077**

---

**From:** Celona, Michael J CIV NAVSUP WSS, M077  
**Sent:** Tuesday, February 10, 2015 8:22  
**To:** Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350  
**Cc:** USS INDEPENDENCE (LCS-2) (aij@saltsmail.salts.navy.mil); Jordan, Sharron Y CIV NAVSUP FLC San Diego, Code 441; Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350; Klimas, Robert R CIV NSWCCD Philadelphia, 6350; Kurylo, Timothy S CIV NSWCCD Philadelphia, 6350; Mukherjee, Sandi CIV NAVSUP WSS, M077; Stanko, Scott CIV NAVSUP WSS, M077; Fitzgerald, Margaret M CIV NAVAIR, AVIATION/SHIP INTEGRATION; Chennaux, Brandon S CIV NSWC PCD; 'COMNAVAIRPAC'; 'COMNAVAIRLANT (aor@saltsmail.salts.navy.mil)'; 'COMNAVSURFLANT'; 'COMNAVSURFPAC'; Celona, Michael J CIV NAVSUP WSS, M077; Bottinelli, Jehdia CIV NAVSUP GLS; Houde, Jennifer S CIV NAVSUP WSS, M077; Hammerer, Mary Q CIV NAVAIR 6.7.1.4; Ichniowski, Matthew CIV nawcad, 6.0; Wilson, James N CIV NAVSUP FLC Norfolk, 401.2; Armacost, Andrew H CIV MSC, N46; Siebor, Adam CIV NAVSUP FLC Norfolk, 401.2; Kurylo, Timothy S CIV NSWCCD Philadelphia, 6350; Mukherjee, Sandi CIV NAVSUP WSS, M077  
**Subject:** USS INDEPENDENCE: SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT/S (SFR's) #5231-5233

**From:** Commander, NAVSUP Weapon Systems Support, Mechanicsburg (NWSS-M), Pa., Code N242  
**To:** Naval Surface Warfare Center, Carderock Division-Ships Systems Engineering Station (NSWCCD-SSES), Code 6350

**Copy to:** Commander, Naval Surface Force, U.S. Atlantic Fleet (COMNAVSURFLANT), Code N411B  
Commander, Naval Surface Force, U.S. Pacific Fleet (COMNAVSURFPAC), Code N931  
Commander, Naval Air Force, U.S. Atlantic Fleet (COMNAVAIRLANT), Code N412A  
Commander, Naval Air Force, U.S. Pacific Fleet (COMNAVAIRPAC), Code 80

**Subj:** FORWARDING OF SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT/S (SFR's)

**Attn:** Frank Iaconianni

**Ref:** (a) NAVSUP PUB P-485 SFR PROCESS  
(b) NWSS-M Point Of Contact (POC): Mike Celona, Code N242, Tel: (717) 605-8319 or DSN: 430-8319. Fax: 717-605-3480 or DSN: 430-3480  
(c) (SFR #5231), CYLINDER, COMPRESSED GAS, NITROGEN, TECHNICAL, (Part# RR-C-901C), NSN: 8120-01-362-6386  
(d) (SFR #5232), LOCTITE SUPER GLUE ULTRA GEL CONTROL, (Part# 1363589), NSN: None  
(e) (SFR #5233), LOCTITE SUPER GLUE ULTRA LIQUID CONTROL, (Part# 1647358), NSN: None

(f) POC for the USS Independence (LCS-2): Laura L. Powell, SAIC

(g) NSWCCD-SSES POC, Frank Iaconianni, Tel: (215) 897-7494, DSN: 430-7494

1. Per ref (a), ref (b) received ref (c) through (e) SFR's from ref (f). Each SFR is reviewed and is assigned an SFR number by ref (b) and processed through the Hardware Systems Command (HSC) Technical Authorities (TA) ref (b) and (g). The following information provides the current status of your SFR's.

Ref (b) has forwarded your SFR's to ref (g) for further review and analysis. Upon ref (g) recommendation, NSWCCD TA will issue an authorization decision. At that time, ref (b) will advise all POC's of the final analysis (approval/disapproval) of ref (g) review. When the results of this analysis is complete, the SHML/T-SHML will be modified by ref (b) to reflect the appropriate information on its next update.

2. Our point of contact in the Asset Protection-Pollution Prevention and PHS&T Division is Mr. Mike Celona, Code N242, DSN: 430-8319 or (717) 605-8319. Fax: DSN 430-3480 or (717) 605-3480.



## DEPARTMENT OF THE NAVY

### NAVSUP WEAPON SYSTEMS SUPPORT

700 ROBBINS AVENUE  
PHILADELPHIA PA 19111-5098


5450 CARLISLE PIKE - PO BOX 2020  
MECHANICSBURG PA 17055-0788

COM & FTS 717-605-8319  
DSN & EXT 430-8319  
FAX # 717-605-3480  
IN REPLY REFER TO:  
4030  
Ser N242/020  
6 February 2015

From: Commander, NAVSUP Weapon Systems Support, Mechanicsburg (NWSS-M),  
Pa., Code M0772  
To: Commanding Officer, Naval Surface Warfare Center, Carderock  
Division-Ship Systems Engineering Station (NSWCCD-SSES),  
Code 635  
Subj: FORWARDING OF SHIPBOARD HAZARDOUS MATERIAL LIST (SHML) FEEDBACK  
REPORT/S (SFR's)

Encl: (1) SHML SFR's (SFR# 5231-5233)

1. Enclosure (1) contains a packet of three (3) SFR's (SFR# 5231-5233) for your review/recommendation.
2. Our point of contact in the Asset Protection-Pollution Prevention and PHS&T Division is Mr. Mike Celona, Code 0772.23, DSN 430-8319 for (717) 605-8319. Fax: DSN 430-3480 or (717) 605-3480.

  
Sandi Mukherjee  
By Direction

<b>ORIGINATOR:</b> NAVSUP WSS-MECHANICSBURG, PA, CODE N242, BUILDING 312, TEL: 717-605-8319, DSN: 430-8319 FAX: 717-605-3480, DSN: 430-3480			
<b>REC'D AT NAVSUP WSS: 2/6/2015    FPO#: AP96618 - 2760    UIC#: 20127    TYCOM: SURFPAC</b>			
<b>TO CODE:</b>	<b>RELEASE DATE:</b>	<b>INITIALS</b>	<b>SUBJECT:            SHIP HAZARDOUS MATERIAL LIST                           (SHML FEEDBACK REPORT (SFR))</b>  <b>SFR # 5231</b>  <b>ATTACHED FROM (SHIP):        USS INDEPENDENCE (LCS-2)</b>  <b>PRODUCT NAME: CYLINDER, COMPRESSED GAS, NITROGEN, TECHNICAL</b>  <b>DATE ON SFR:       2/6/2015</b>
<b>NAVSUP WSS</b>	<b>2/10/2015</b>	<b>MC</b>	<b>NSN/NIIN: 8120-01-362-6386                    CAGE: 81349</b>
<b>NSWCCD</b>			<b>PART NUMBER/DRAWING/SPECIFICATION: RR-C-901C</b>
<b>ISEA</b>			<b>SHML STATUS: (NIS=Not in SHML; A=Authorized; P= Prohibited; R=Restricted; NIS                    O=Obsolete; N=Not Determined)</b>
			<b>MSDS NUMBER: (NIH=Not In HMIRS) NIH</b>
			<b>MIP: NONE</b>
			<b>MRC: NONE</b>
<b>LCM/ISEA</b>			<b>MIP/MRC: NONE</b>
			<b>APL: NONE</b>
			<b>AEL: NONE</b>
<b>NAVSUP WSS</b>			<b>APL/AEL: NONE</b>
			<b>TECHNICAL MANUAL: SE315-AE-MMO-010</b>
			<b>AIRCRAFT APPLICATIONS: NO</b>
<b>RELATED SFR's: NONE</b>			<b>NOTES: W/G3/H    267 POUND CYLINDER.</b>

Current Date: 2/06/2015

**RECEIVED**  
FEB 6, 2015  
BY: SFR 5231

**SHIP'S HAZARDOUS MATERIALS LIST (SHML)  
FEEDBACK REPORT (SFR)**

NIS  
NIT  
NOT IN DLSC  
NIH

This form needs to be completed if the Hazardous Material that you want to purchase is not authorized on your T-SHML

SHIP NAME: USS Independence (LCS2) HULL NUMBER: 2 TYCOM: COMNAVSURFFOR  
UIC: 20127 Serial Number: 037150840 AIRCRAFT RELATED: ☐ Yes ☒ No

**I. JUSTIFICATION** (To include equipment/application this material is to be used on):  
This material is required to recharge the Emergency Recovery System (ERS) on the Remote Multi-Mission Vehicle (RMMV). 6000 psi is required to backfill the ERS System. This requirement is in procedure RMS-B-P0-02-83-00-A-100-A-A listed in the RMS O-Level Tech Manual.

CURRENTLY USED NSN OR PRODUCT TO BE REPLACED (if applicable):

**II. TECHNICAL DATA**

MAINTENANCE INDEX PAGE (MIP) #:  
MAINTENANCE REQUIREMENT CARD (MRC #): APL OR AEL:  
TECH MANUAL: SE315-AE-MMO-010 REV. ESTIMATED YEARLY REQUIREMENT:

**III. MANUFACTURER DATA** (If requested NSN is provided proceed to section IV)

9B NSN: 8120 - 01 - 362 - 6386

MANUFACTURER: Military Specifications (CAGE PHONE:  
81349)

ITEM OR TRADE NAME: Cylinder, Compressed Gas, Nitrogen, Technical

PART NUMBER OR SPECIFICATION: RR-C-901C

UNIT OF ISSUE: CY UNIT OF MEASURE: 267 LB, 55 inches tall, 9 inch outer dia.

Cage 81349  
TICKET # 04763231  
MSDS SENT TO HMIRS  
W/G 3/4

**IV. ENDORSEMENTS**

\$1,453.45

REQUESTORS NAME: Brandon Chennaux

RANK:

EMAIL: Brandon.chennaux@navy.mil

DATE PREPARED:

COMMANDER OR DESIGNEE NAME:

RANK:

EMAIL:

DATE:

SIGNATURE:

PRAXAIR INC. / cage 0LV01 / PN: NITROGEN, COMPRESSED REFRIGERANT R728

CO's signature denotes acceptance of all liabilities associated with the procurement and use of this non-SHML hazardous material

Electronic submission of SHML Feedback Report/s constitutes CO's approval

Mail to:  
Commanding Officer, NAVSUP Weapons Systems Support  
P.O. Box 2020, Code M0772.22  
5450 Carlisle Pike, Mechanicsburg PA 17055-0788  
Fax: DSN 430-3480 or COM 717-605-3480  
Email: wraps.prime.fct@navy.mil



**Celona, Michael J CIV NAVSUP WSS, M077**

---

**From:** Fitzgerald, Margaret M CIV NAVAIR, AVIATION/SHIP INTEGRATION  
**Sent:** Friday, February 06, 2015 13:04  
**To:** Powell, Laura L; Celona, Michael J CIV NAVSUP WSS, M077  
**Cc:** Jordan, Sharron Y CIV NAVSUP FLC San Diego, Code 441; Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350; Kurylo, Timothy S CIV NSWCCD Philadelphia, 6350; Mukherjee, Sandi CIV NAVSUP WSS, M077; Stanko, Scott CIV NAVSUP WSS, M077; Chennaux, Brandon S CIV NSWC PCD  
**Subject:** RE: SFR Process  
**Signed By:** MARGARET.FITZGERALD@NAVY.MIL

Laura,

The N2 cylinder is size code 'BB', which is 55" tall with a 9" Outer diameter and would weigh around 267 lbs (tare weight

V/R,

Peg

Margaret 'Peg' Fitzgerald  
NAVAIR Aviation/Ship Integration  
LCS Aviation Logistics Lead  
COMM: (301) 757-9191  
DSN: 757-9191  
Fax: (301) 342-3948  
margaret.fitzgerald@navy.mil

Live to make a difference.

-----Original Message-----

**From:** Powell, Laura L. [mailto:LAURA.L.POWELL@saic.com]  
**Sent:** Friday, February 06, 2015 12:34 PM  
**To:** Celona, Michael J CIV NAVSUP WSS, M077  
**Cc:** Jordan, Sharron Y CIV NAVSUP FLC San Diego, Code 441; Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350; Kurylo, Timothy S CIV NSWCCD Philadelphia, 6350; Mukherjee, Sandi CIV NAVSUP WSS, M077; Stanko, Scott CIV NAVSUP WSS, M077; Fitzgerald, Margaret M CIV NAVAIR, AVIATION/SHIP INTEGRATION; Chennaux, Brandon S CIV NSWC PCD  
**Subject:** RE: SFR Process

Mike,

Attached is the SFR for the Nitrogen cylinder (8120-01-362-6386). Please let me know if you have any questions. Have a great weekend.

Vr,  
Laura L. Powell | SAIC  
Logistics Analyst I | Defense Maritime Solutions  
phone: 850-249-4031  
laura.l.powell@saic.com

# Nitrogen, compressed

## Safety Data Sheet P-4631

according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

Date of issue: 01/01/1980

Revision date: 10/03/2014

Supersedes: 09/26/2013

### SECTION 1: Product and company identification

#### 1.1. Product identifier

Product form : Substance  
Name : Nitrogen, compressed  
CAS No : 7727-37-9  
Formula : N<sub>2</sub>  
Other means of identification : Dinitrogen, Refrigerant R728, Nitrogen, Medipure Nitrogen, Extendapak Nitrogen

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Industrial use  
Medical applications.  
Food applications.

#### 1.3. Details of the supplier of the safety data sheet

Praxair, Inc.  
39 Old Ridgebury Road  
Danbury, CT 06810-5113 - USA  
T 1-800-772-9247 (1-800-PRAXAIR) - F 1-716-879-2146  
[www.praxair.com](http://www.praxair.com)

#### 1.4. Emergency telephone number

Emergency number : Onsite Emergencies: 1-800-645-4633  
CHEMTREC: USA 1-800-424-9300, International 001-703-527-3887 (Collect calls accepted, contract 17729)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification (GHS-US)  
Compressed gas H280  
Full text of H-phrases: see section 16

#### 2.2. Label elements

GHS-US labeling  
Hazard pictograms (GHS-US)



GHS04

Signal word (GHS-US) : Warning  
Hazard statements (GHS-US) : OSHA-H01 - MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION.  
Precautionary statements (GHS-US) : P202 - Do not handle until all safety precautions have been read and understood  
P271+P403 - Use and store only outdoors or in a well-ventilated place.  
CGA-PG05 - Use a back flow preventive device in the piping.  
CGA-PG10 - Use only with equipment rated for cylinder pressure.  
CGA-PG06 - Close valve after each use and when empty.  
CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F).

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS-US)

No data available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

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# Nitrogen, compressed

## Safety Data Sheet

according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

Name	Product Identifier	%
Nitrogen, compressed (Main constituent)	(CAS No) 7727-37-9	100

### 3.2 Mixture

Not applicable

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- First-aid measures after inhalation : Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.
- First-aid measures after skin contact : Adverse effects not expected from this product.
- First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Hold the eyelids open and away from the eyeballs to ensure that all surfaces are flushed thoroughly. Get immediate medical attention.
- First-aid measures after ingestion : Ingestion is not considered a potential route of exposure.

### 4.2 Most important symptoms and effects, both acute and delayed

No additional information available

### 4.3 Indication of any immediate medical attention and special treatment needed

None.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

### 5.2 Special hazards arising from the substance or mixture

- Reactivity : Under certain conditions, nitrogen can react violently with lithium, neodymium, titanium (above 1472°F/800°C), and magnesium to form nitrides. At high temperature, it can also combine with oxygen and hydrogen.

### 5.3 Advice for firefighters

- Firefighting instructions : Evacuate all personnel from the danger area. Use self-contained breathing apparatus (SCBA) and protective clothing. Immediately cool containers with water from maximum distance. Stop flow of gas if safe to do so, while continuing cooling water spray. Remove ignition sources if safe to do so. Remove containers from area of fire if safe to do so. On-site fire brigades must comply with OSHA 29 CFR 1910.156 and applicable standards under 29 CFR 1910 Subpart L—Fire Protection.
- Protection during firefighting : Compressed gas: asphyxiant. Suffocation hazard by lack of oxygen.
- Special protective equipment for fire fighters : Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.
- Specific methods : Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems. Stop flow of product if safe to do so. Use water spray or fog to knock down fire fumes if possible.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- General measures : Evacuate area. Ensure adequate air ventilation. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Stop leak if safe to do so.

#### 6.1.1 For non-emergency personnel

No additional information available

#### 6.1.2 For emergency responders

No additional information available

### 6.2 Environmental precautions

No additional information available

# Nitrogen, compressed

## Safety Data Sheet

according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

### 6.3. Methods and material for containment and cleaning up

No additional information available

### 6.4. Reference to other sections

See also sections 8 and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling

: Wear leather safety gloves and safety shoes when handling cylinders. Protect cylinders from physical damage; do not drag, roll, slide or drop. While moving cylinder, always keep in place removable valve cover. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Never insert an object (e.g., wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Slowly open the valve. If the valve is hard to open, discontinue use and contact your supplier. Close the container valve after each use; keep closed even when empty. Never apply flame or localized heat directly to any part of the container. High temperatures may damage the container and could cause the pressure relief device to fail prematurely, venting the container contents. For other precautions in using this product, see section 16.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store in a cool, well-ventilated place. Store and use with adequate ventilation. Store only where temperature will not exceed 125°F (52°C). Firmly secure containers upright to keep them from falling or being knocked over. Install valve protection cap, if provided, firmly in place by hand. Store full and empty containers separately. Use a first-in, first-out inventory system to prevent storing full containers for long periods.

OTHER PRECAUTIONS FOR HANDLING, STORAGE, AND USE: When handling product under pressure, use piping and equipment adequately designed to withstand the pressures to be encountered. Never work on a pressurized system. Use a back flow preventive device in the piping. Gases can cause rapid suffocation because of oxygen deficiency; store and use with adequate ventilation. If a leak occurs, close the container valve and blow down the system in a safe and environmentally correct manner in compliance with all international, federal/national, state/provincial, and local laws; then repair the leak. Never place a container where it may become part of an electrical circuit.

### 7.3. Specific end use(s)

None.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Nitrogen, compressed (7727-37-9)

ACGIH	Not established
USA OSHA	Not established

### 8.2. Exposure controls

Appropriate engineering controls

: Oxygen detectors should be used when asphyxiating gases may be released. Systems under pressure should be regularly checked for leakages. Provide adequate general and local exhaust ventilation. Consider work permit system e.g. for maintenance activities.

Hand protection

: Wear working gloves when handling gas containers.

Eye protection

: Wear safety glasses with side shields.

Respiratory protection

: Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmospheres.

Thermal hazard protection

: None necessary.

Environmental exposure controls

: None necessary.

Other information

: Wear safety shoes while handling containers.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state

: Gas

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# Nitrogen, compressed

## Safety Data Sheet

according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

Appearance	: Colorless gas.
Molecular mass	: 28 g/mol
Color	: Colorless.
Odor	: No data available
Odor threshold	: No data available
pH	: Not applicable.
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: Not applicable.
Melting point	: -210 °C
Freezing point	: No data available
Boiling point	: -195.8 °C
Flash point	: No data available
Critical temperature	: -149.9 °C
Auto-ignition temperature	: Not applicable.
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: Not applicable.
Critical pressure	: 3390 kPa
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1.16 kg/m³
Relative gas density	: 0.97
Solubility	: Water: 20 mg/l
Log Pow	: Not applicable.
Log Kow	: Not applicable.
Viscosity, kinematic	: Not applicable.
Viscosity, dynamic	: Not applicable.
Explosive properties	: Not applicable.
Oxidizing properties	: None.
Explosive limits	: No data available

### 9.2 Other Information

Gas group	: Compressed gas
Additional information	: None.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Under certain conditions, nitrogen can react violently with lithium, neodymium, titanium (above 1472°F/800°C), and magnesium to form nitrides. At high temperature, it can also combine with oxygen and hydrogen.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

May occur.

### 10.4 Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5 Incompatible materials

None.

### 10.6 Hazardous decomposition products

None.

# Nitrogen, compressed

## Safety Data Sheet

according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified pH: Not applicable.
Serious eye damage/irritation	: Not classified pH: Not applicable.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified No known effects from this product.
Aspiration hazard	: Not classified Not applicable.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general	: No ecological damage caused by this product.
-------------------	--

#### 12.2. Persistence and degradability

Nitrogen, compressed (7727-37-9)	
Persistence and degradability	No ecological damage caused by this product.

#### 12.3. Bioaccumulative potential

Nitrogen, compressed (7727-37-9)	
Log Pow	Not applicable.
Log Kow	Not applicable.
Bioaccumulative potential	No ecological damage caused by this product.

#### 12.4. Mobility in soil

Nitrogen, compressed (7727-37-9)	
Mobility in soil	No data available.
Ecology - soil	No ecological damage caused by this product.

#### 12.5. Other adverse effects

Effect on ozone layer	: None.
Effect on the global warming	: None.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods	: May be vented to atmosphere in a well ventilated place. Consult supplier for specific recommendations. Do not discharge into any place where its accumulation could be dangerous. Contact supplier if guidance is required.
Waste disposal recommendations	: Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.

### SECTION 14: Transport information

In accordance with DOT

Transport document description	: UN1066 Nitrogen, compressed, 2.2
UN-No.(DOT)	: UN1066

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# Nitrogen, compressed

## Safety Data Sheet

according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

Proper Shipping Name (DOT) : Nitrogen, compressed  
Department of Transportation (DOT) Hazard Classes : 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115  
Hazard labels (DOT) : 2.2 - Non-flammable gas



### Additional information

Emergency Response Guide (ERG) Number : 121 (UN1066); 120 (UN1977)  
Other information : No supplementary information available.  
Special transport precautions : Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers:  
- Ensure there is adequate ventilation. - Ensure that containers are firmly secured. - Ensure cylinder valve is closed and not leaking. - Ensure valve outlet cap nut or plug (where provided) is correctly fitted. - Ensure valve protection device (where provided) is correctly fitted.

### Transport by sea

UN-No. (IMDG) : 1066  
Proper Shipping Name (IMDG) : NITROGEN, COMPRESSED  
Class (IMDG) : 2 - Gases  
MFAG-No : 121

### Air transport

UN-No.(IATA) : 1066  
Proper Shipping Name (IATA) : NITROGEN, COMPRESSED  
Class (IATA) : 2  
Civil Aeronautics Law : Gases under pressure/Gases nonflammable nontoxic under pressure

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

Nitrogen, compressed (7727-37-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
SARA Section 311/312 Hazard Classes	Sudden release of pressure hazard

### 15.2. International regulations

#### CANADA

Nitrogen, compressed (7727-37-9)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class A - Compressed Gas

#### EU-Regulations

Nitrogen, compressed (7727-37-9)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Compressed gas H280

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified



# Nitrogen, compressed

## Safety Data Sheet

according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

### 15.2.2. National regulations

#### Nitrogen, compressed (7727-37-9)

Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the Korean ECL (Existing Chemicals List)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

### 15.3. US State regulations

#### Nitrogen, compressed (7727-37-9)

U.S. - California - Proposition 65 - Carcinogens List	No
U.S. - California - Proposition 65 - Developmental Toxicity	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Female	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: Other information

Revision date : 10/3/2014 12:00:00 AM

Other information : When you mix two or more chemicals, you can create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an industrial hygienist or other trained person when you evaluate the end product. Before using any plastics, confirm their compatibility with this product.

Praxair asks users of this product to study this SDS and become aware of the product hazards and safety information. To promote safe use of this product, a user should (1) notify employees, agents, and contractors of the information in this SDS and of any other known product hazards and safety information, (2) furnish this information to each purchaser of the product, and (3) ask each purchaser to notify its employees and customers of the product hazards and safety information.

The opinions expressed herein are those of qualified experts within Praxair, Inc. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and the conditions of use are not within the control of Praxair, Inc., it is the user's obligation to determine the conditions of safe use of the product.

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#### Full text of H-phrases:

Compressed gas	Gases under pressure Compressed gas
H280	CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED

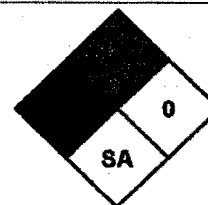


# Nitrogen, compressed

## Safety Data Sheet

according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

NFPA health hazard	: 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
NFPA specific hazard	: SA - This denotes gases which are simple asphyxiants.



HMIS III Rating	
Health	: 0 Minimal Hazard - No significant risk to health
Flammability	: 0 Minimal Hazard
Physical	: 3 Serious Hazard

SDS US (GHS HazCom 2012) - Praxair

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*



**AIR SOURCE INDUSTRIES**  
MEDICAL, INDUSTRIAL AND SPECIALTY GASES

# Nitrogen, N<sub>2</sub> (Compressed)

## Description:

A colorless, odorless, nonflammable, chemically inert gas. Shipped as a compressed gas.

**Cylinder Color Code: BLACK**

## Characteristics:

Molecular Weight – 28.01

Specific Volume – 13.8 (cubic feet/lb)

Flammability Limits – Non-Flammable

TLV – Simple Asphyxiant

## Shipping:

DOT Name – Nitrogen, Compressed

DOT Hazard Class – 2.2

UN No – UN1066

DOT Label – Non-Flammable Gas

Grade & Gas Specification	Cyl. Size	Product Code	Contents		Cylinder Rental	Cylinder Pressure (psi)	CGA Outlet	Nominal Cylinder Dim. (in.)	Shipping Wt. Lbs.
			Cubic Feet	Liters					
Nitrogen Commercial 99.98%	300	NI COM6PK300	1674	47401	YES	2400	580	9.25 x 59	825
	300	NI COM300	279	7900	YES	2400	580	9.25 x 59	169
	200	NI COM200	209	5918	YES	2265	580	9 x 55	142
	120	NI COM120	110	3115	YES	2265	580	7 x 47	75
	80	NI COM80	80	2265	YES	2265	580	7 x 36	67
	50	NI COM50	50	1416	YES	2015	580	7 X 27	39
	3500	NI COM3500	335	9486	YES	3500	580	10 X 55	213
Nitrogen Food 99.98%	200	NI FOD200	209	5918	YES	2265	580	9x55	142
Nitrogen Nat'l Formulary 99.98%	300	NI NF300	279	7900	YES	2400	580	9.25 x 59	169
	200	NI NF200	209	5918	YES	2265	580	9 x 55	142
	120	NI NF120	110	3115	YES	2265	580	7 x 47	75
	80	NI NF80	80	2265	YES	2265	580	7 x 36	67
	50	NI NF50	50	1416	YES	2015	580	7 X 27	39
	E	NI NFE	23	651	YES	2015	960	4 x 30	16
Nitrogen Prepurified 99.998%	300	NI PP300	279	7900	YES	2400	580	9.25 x 59	169
	200	NI PP200	209	5918	YES	2265	580	9 x 55	142
	6K	NI PP6K	494	13988	YES	6000	580	10 X 55	316
	3500	NI PP3500	335	9486	YES	3500	580	10 X 55	213

◆NOTE: Product Codes ending in A are aluminum cylinders - Nominal Cylinder Dimensions are with valve & no cap - Shipping Weight is with cap on.

3976 Cherry Ave., Long Beach, CA 90807  
Tel: (562) 426-4017 – FAX: (562) 490-9477  
[www.air-source.com](http://www.air-source.com) – [info@air-source.com](mailto:info@air-source.com)



**AIR SOURCE INDUSTRIES**  
MEDICAL, INDUSTRIAL AND SPECIALTY GASES

## Nitrogen, N<sub>2</sub> (Compressed)

Grade & Gas Specification	Cyl. Size	Product Code ♦	Contents		Cylinder Rental	Cylinder Pressure (psi)	CGA Outlet	Nominal Cylinder Dim. (in.) ♦	Shipping Wt. Lbs ♦
			Cubic Feet	Liters					
Nitrogen UHP 99.999%	300	NI UHP300	279	7900	YES	2400	580	9.25 x 59	169
	200	NI UHP200	209	5918	YES	2265	580	9 x 55	142
	120	NI UHP120	110	3115	YES	2265	580	7 x 47	75
	80	NI UHP80	80	2265	YES	2265	580	7 x 36	67

♦ NOTE: Product Codes ending in A are aluminum cylinders - Nominal Cylinder Dimensions are with valve & no cap - Shipping Weight is with cap on.

3976 Cherry Ave., Long Beach, CA 90807  
Tel: (562) 426-4017 – FAX: (562) 490-9477  
[www.air-source.com](http://www.air-source.com) – [info@air-source.com](mailto:info@air-source.com)

ERS RECHARGE - PROCEDURE

**Preliminary Requirements**

**Required Conditions:**

Required Condition	Data Module / Technical Publication
VDSDR starboard panel removed.	<i>RMS-B-P0-08-03-00-A-282-A-A</i>
VDSDR port panel removed.	<i>RMS-B-P0-01-22-00-A-282-A-A</i>
ERS cleanliness maintained.	<i>RMS-B-P0-00-83-00-A-100-A-A</i>

**Support Equipment**

Name	Identification	Quantity
ERS Recharge System Assembly	53711 / 8605118	1

**Supplies**

Name	Identification	Quantity
Wrench Set, Combination Box and Open End, (5/16 in.-3 1/4 in.)	SPMIG / 03452	1
Snap-On, Wrench Set, Crowfoot Open End, 3/8 in. sq. dr. (3/8 in. to 1 in.)	CAGE 5K761 / Stock # 211GFCO	1
Wrench, Torque, 3/8 in. sq. dr., 0-300 in.-lbs.	SPMIG / 00200	1
Flashlight Type 3, style 1, explosive proof	CAGE 80244 / MIL-F-3747	1
Mirror, inspection 2-1/4" dia glass, adjustable length handle	CAGE 81348 / PN GGG-M-350	1

**Spares**

Name	Identification	Quantity
Nitrogen, Technical, Type 1, Grade B, Class 1	SPMIG / 00915	AR

Working Papers

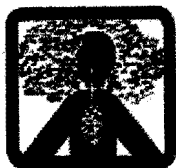
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### Safety Conditions:

No safety requirements.

### Procedure



#### **NITROGEN: RMS-B-00-00-00-00-A-016-A-A**

Nitrogen gas is under high pressure. Ensure the bottle cylinder valve protection cap remains installed when the gas supply cylinder is not in use and during transport. The gas supply cylinder shall always be physically restrained to ensure it cannot topple over. Appropriate PPE shall be worn by all personnel in the immediate vicinity. Failure to comply may result in serious personnel injury or death.

### CAUTION

ERS cleanliness and handling precautions shall be taken at all times to prevent contamination of clean systems when ERS is open. All ERS components, tubing, and fittings shall be maintained IAW the *RMS-B-P0-00-83-00-A-100-A-A* during maintenance. Failure to comply may result in damage to equipment.

Ensure ERS bottle assembly certification has not expired prior to performing the ERS recharge procedure. Failure to comply may result in damage to equipment.

The Equipment Discrepancy Book (EDB) shall be checked to verify the Bottle Refurbishment date is not exceeded prior to ERS Bottle Recharging. Failure to comply may result in damage to equipment.

**NOTE**

**This procedure describes the proper and safe method for performing a slow recharge (435 psl/min fill rate) of the ERS.**

**Check Nitrogen supply bottle to ensure adequate pressure is available to accomplish re-charge. Bottle re-charge pressure = 6000 psig.**

**This procedure describes the steps for pressurization of the ERS Bottle Assemblies while they are installed on the RMMV. A recharge is only required if the bottle pressure falls below the acceptable range noted in this procedure.**

**1 ERS Bottle Charging Setup**

- 1.1 Check the EDB and verify ERS Bottle(s) are within the allowable service period and do not require removal from the vehicle for refurbishment. If the Refurbishment Date is exceeded, call for technical assistance to remove the bottle(s) from the vehicle. If the bottle(s) are still in the normal service period, proceed to Step 1.2.
- 1.2 Verify port and/or starboard ERS bottle(s) need recharging by looking at pressure gauge through ERS access portal. A recharge is only required if the bottle pressure falls below the acceptable range as indicated in Figure 1. Operational Availability Per Weight of N2 and Water Temperature.
- 1.3 Verify two ERS System Isolation Valves on ERS bottles are closed. These valves should have a torque of 35-40 in-lbs when closed.
- 1.4 Disconnect ERS Hose Assembly from Inflation Valve Assembly prior to leak check and recharge. Maintain system cleanliness IAW *RMS-B-P0-00-83-00-A-100-A-A*. Refer to Figure 5. ERS Hose Assembly.
- 1.5 On ERS Recharge bottle, verify all valves closed, regulator fully backed off and 0 psig on inlet and outlet gauges.
- 1.6 On ERS Recharge System Assembly, verify bleed valve and needle valve are both closed. Refer to Figure 2. ERS Recharge System Schematic.
- 1.7 Energize/verify vehicle power to ERS Pressure Transducer Assembly RVO Console.  
Record pressure: \_\_\_\_\_ PSIG
- 1.8 Install ERS Inflation Valve Seating Tool Kit, as per *RMS-B-P0-03-83-00-A-100-A-A*, onto Inflation Valve Assembly. Ensure Ball Valve is in the CLOSED position.

**Removal of the Fill Fitting Plug must be performed slowly. The Fill Fitting Plug may be under pressure if the Piston/O-Ring on the Fill Bleed Piston is damaged or unseated. Failure to comply may result in equipment damage and/or injury to personnel.**

- 1.9 Slowly remove Fill Fitting Plug from ERS Inflation Manifold Assembly.
- 1.10 Connect quick disconnect male to fill/bleed valve on ERS Inflation Manifold. Torque value: 10-15 ft-lbs.
- 1.11 Connect quick disconnect female from assembled ERS Recharge Assembly to quick disconnect male installed on ERS Inflation Manifold.
- 2 Pre-Recharge Leak Check**

This leak test will verify the ERS hoses are leak free prior to pressurization.

  - 2.1 Applying Leak Test Pressure**
    - 2.1.1 Open gas supply bottle valve. Verify 4500 psig or greater on regulator inlet gauge.
    - 2.1.2 Open ERS Recharge System Assembly needle valve.
    - 2.1.3 Using the regulator on the ERS Recharge System, pressurize slowly to 3600 psig as indicated on the ERS Recharge System Assembly regulator outlet gauge and ERS Pressure Transducer Assembly. When approaching 3400 psig, pause to allow pressure to equalize and then continue to slowly increase pressure without exceeding 3600 +50/-100 psig.
  - 2.2 Start Pre-pressurization Leak Check**
    - 2.2.1 Apply soap leak solution at all joints, fittings and hoses and inspect for any leaks. If no leak is detected proceed to next step, otherwise record leak location and perform the *RMS-B-P0-01-83-00-A-100-A-A*.  
Record leak location: \_\_\_\_\_
    - 2.2.2 Close the ERS Recharge Assembly Needle Valve and back-off regulator to 2000 +/- 500 psig.
- 3 BOTTLE Pressurization**
  - 3.1 BOTTLE 1 (Port Side) Pressurization**

- 3.1.1 Slowly open Bottle 1 Isolation Valve by turning counterclockwise.
- 3.1.2 Verify and record pressure on ERS Pressure Transducer. If bottle pressure lies below the acceptable range per Figure 3. Weight of N2 as Function of ERS System Pressure and Ambient Temperature proceed to next step, otherwise skip to Step 3.2.  
Initial pressure: \_\_\_\_\_ psig
- 3.1.3 Adjust regulator on ERS recharge system assembly to initial pressure recorded in Step 3.1.2 as indicated on the outlet gauge. Verify transducer indicates initial pressure and verify there are no audible leaks.
- 3.1.4 Open the ERS Recharge Assembly Needle Valve.
- 3.1.5 Using regulator on ERS Recharge System Assembly continue to pressurize slowly per bottle manufacturer's requirements (maximum fill rate of 435 psi/min) to 3600 +/-200 psig as indicated on ERS Recharge System Assembly outlet gauge and ERS Pressure Transducer. When approaching 3400 psig, pause to allow pressure to equalize and then continue to increase pressure slowly, pausing every 50 psig to allow time for pressure to equalize.
- 3.1.6 Hold system pressure for a minimum of 5 minutes and record pressure on ERS Pressure Transducer.  
Final pressure: \_\_\_\_\_ psig
- 3.2 BOTTLE 1 (Port) Securing**  
Close Bottle 1 Isolation Valve by turning clockwise. Torque value: 35-40 in-lbs.
- 3.3 BOTTLE 2 (Starboard Side) Pressurization**
- 3.3.1 Close the ERS Recharge Assembly Needle Valve and back off ERS Recharge System regulator to 2000 +/- 500 psig.
- 3.3.2 Slowly open Bottle 2 Isolation Valve by turning counterclockwise.
- 3.3.3 Verify and record pressure on ERS Pressure Transducer. If bottle pressure lies below the acceptable range per Figure 3. Weight of N2 as Function of ERS System Pressure and Ambient Temperature proceed to next step, otherwise skip to Step 3.4.  
Initial pressure: \_\_\_\_\_ psig
- 3.3.4 Adjust regulator on ERS recharge system assembly to initial pressure recorded in Step 3.3.2 as indicated on the outlet gauge. Verify transducer indicates initial pressure and verify there are no audible leaks.
- 3.3.5 Open the ERS Recharge Assembly Needle Valve.



3.3.6 Using regulator on ERS Recharge System Assembly, continue to pressurize slowly per bottle manufacturer's requirements (maximum fill rate of 435 psi/min) to 3600 +0/-200 psig as indicated on ERS Recharge System Assembly outlet gauge and ERS Pressure Transducer. When approaching 3400 psig, pause to allow pressure to equalize and then continue to increase pressure slowly, pausing every 50 psig to allow time for pressure to equalize.

3.3.7 Hold system pressure for a minimum of 5 minutes and record pressure on ERS Pressure Transducer.  
Final pressure: \_\_\_\_\_ psig

#### 3.4 BOTTLE 2 (Starboard) Securing

Close Bottle 2 Isolation Valve by turning clockwise. Torque value: 35-40 in-lbs.

### 4 Fill/Bleed Fitting Piston Seating

4.1 Close ERS Recharge Assembly gas supply bottle valve.

4.2 Back off regulator to 0 psig to bleed the ERS Recharge Equipment.

4.3 Disconnect the ERS Recharge Assembly, including Quick Disconnects from Inflation Manifold Assembly.

4.4 Verify and record pressure on the ERS Pressure Transducer. If ERS System Pressure is below 500 psig proceed to the next step as the Fill/Bleed Fitting Piston did not seat and the inflation valve may have unseated, otherwise skip to Step 5.

ERS System pressure: \_\_\_\_\_ psig

4.5 Seat the Fill/Bleed Fitting Piston. Quickly open (counterclockwise) the STBD ERS Bottle Isolation Valve to allow for air flow to seat the piston. After 1-2 seconds, close (clockwise) the Isolation Valve.

#### NOTE

**Fill/Bleed Fitting should only be replaced on the bench  
to ensure proper installation of Spring and Piston.**

4.6 Verify and record pressure on the ERS Pressure Transducer. If piston has seated and high pressure holds constant for 5 minutes, proceed to Step 5, otherwise repeat Step 4.5 as the Fill/Bleed Fitting Piston did not seat. If after 3 consecutive attempts the piston does not seat, replace the Fill/Bleed Fitting assembly.

ERS System pressure: \_\_\_\_\_ psig

### 5 Inflation Valve Seating

- 5.1 Once the Fill/Bleed Fitting Piston has seated, slowly open (counterclockwise) either PORT or STBD Bottle Isolation Valve.
- 5.2 In one quick fluid motion, fully open the Ball Valve on the Inflation Valve Seating Tool Kit to allow for air flow to seat the valve. After 1-2 seconds, close the Ball Valve.
- 5.3 If gauge on Inflation Valve Seating Tool Kit shows 0 psig, continue to next step. Otherwise, repeat step Step 5.2. After 5 consecutive attempts without seating, the ERS Inflation Valve must be replaced.
- 5.4 Close (clockwise) Bottle Isolation Valve. Torque value: 35-40 in-lbs.
- 5.5 Ensure both ERS Bottles are closed.
- 5.6 Bleed and remove the Inflation Valve Seating Tool Kit from the Inflation Valve Assembly.
- 6 Post-Pressurization Leak Check**
- 6.1 Slowly open both port and starboard ERS Bottle Assembly Isolation Valves by turning counter clockwise.
- 6.2 Record pressure reading from ERS Pressure Transducer. If ERS Pressure falls within acceptable range as determined by Figure 1. Operational Availability Per Weight of N2 and Water Temperature and Figure 3. Weight of N2 as Function of ERS System Pressure and Ambient Temperature, proceed to next step, otherwise repeat procedure.
- System pressure: \_\_\_\_\_ psig
- 6.3 Apply soap leak solution at all joints, fittings and hoses and inspect for any leaks. If no leak is detected proceed to Step 7, otherwise record leak location and perform the *RMS-B-P0-01-83-00-A-100-A-A*.
- Record leak location \_\_\_\_\_
- 7 System Securing**
- 7.1 Close gas supply bottle valve.
- 7.2 Re-install Fill/Bleed Fitting Plug (Torque snug) into Inflation Manifold Assembly.
- 7.3 Reconnect ERS Hose Assembly to ERS Inflation Valve Assembly. Refer to Figure 4. ERS Interconnect.

### Requirements after Job Completion

#### Required Conditions:

Working Papers  
MISSING OR UNKNOWN DISTRIBUTION STATEMENT.  
SE315-AE-MMO-010

**Required Condition**

**Data Module / Technical Publication**

Install VDSDR starboard panel.

*RMS-B-P0-08-03-00-A-282-A-A*

Install VDSDR port panel.

*RMS-B-P0-01-22-00-A-282-A-A*

Working Papers

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3 February 2015 13:34

Working Papers  
MISSING OR UNKNOWN DISTRIBUTION STATEMENT.  
SE315-AE-MMO-010

Fig 1. Operational Availability Per Weight of N2 and Water Temperature

	Weight of Nitrogen (lbm)																		
	3600	295	294	291	288	283	280	277	275	272	269	267	264	262	260	257	255	253	251
ERS Bottle Pressure (PSI)	3500	287	286	283	280	275	272	269	267	264	262	259	257	255	252	250	248	246	244
	3400	279	278	275	272	267	264	262	259	257	254	252	250	247	245	243	241	239	237
	3300	271	270	267	264	259	257	254	252	249	247	245	242	240	238	236	234	232	230
	3200	263	261	259	256	251	249	246	244	242	239	237	235	233	231	229	227	225	223
	3100	254	253	251	248	243	241	239	236	234	232	230	228	226	224	222	220	218	216
	3000	246	245	243	240	235	233	231	229	227	224	222	220	218	216	214	213	211	209
	2900	238	237	235	232	228	225	223	221	219	217	215	213	211	209	207	205	204	202
	2800	230	229	226	224	220	218	216	214	211	210	208	206	204	202	200	198	197	195
	2700	222	221	218	216	212	210	208	206	204	202	200	198	197	195	193	191	190	188
	2600	213	212	210	208	204	202	200	198	196	195	193	191	189	188	186	184	183	181
	2500	205	204	202	200	196	194	192	191	189	187	185	184	182	180	179	177	176	174
	2400	197	196	194	192	188	187	185	183	181	180	178	176	175	173	172	170	169	167
	2300	189	188	186	184	181	179	177	175	174	172	171	169	167	166	164	163	162	160
	2200	180	180	178	176	173	171	169	168	166	165	163	162	160	159	157	156	155	153
	2100	172	172	170	168	165	163	162	160	159	157	156	154	153	151	150	149	147	146
	2000	164	163	162	160	157	155	154	153	151	150	148	147	146	144	143	142	140	139
	1900	156	155	154	152	149	148	146	145	144	142	141	140	138	137	136	135	133	132
	1800	148	147	146	144	141	140	139	137	136	135	133	132	131	130	129	128	126	125
	1700	139	139	137	136	133	132	131	130	128	127	126	125	124	123	122	120	119	118
		28	30	35	40	50	55	60	65	70	75	80	85	90	95	100	105	110	115
		Ambient Air Temperature (Deg °F)																	

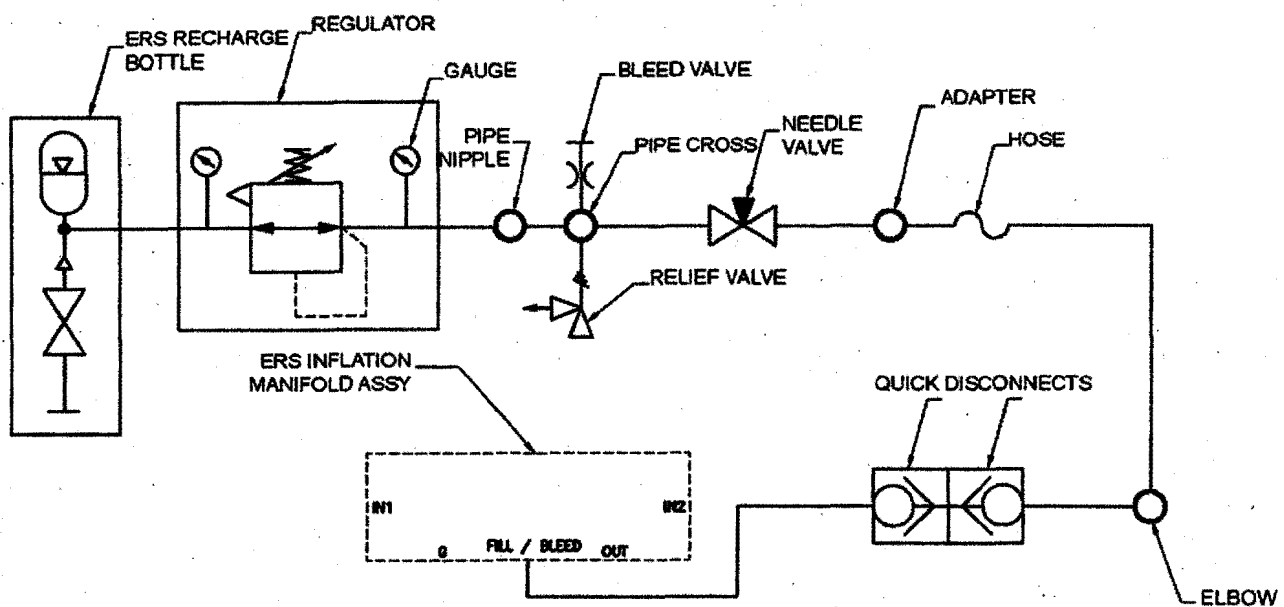
ICN-RMS-A-P08200-N-61331-00001-A-01-1

Working Papers

3 February 2015 13:34

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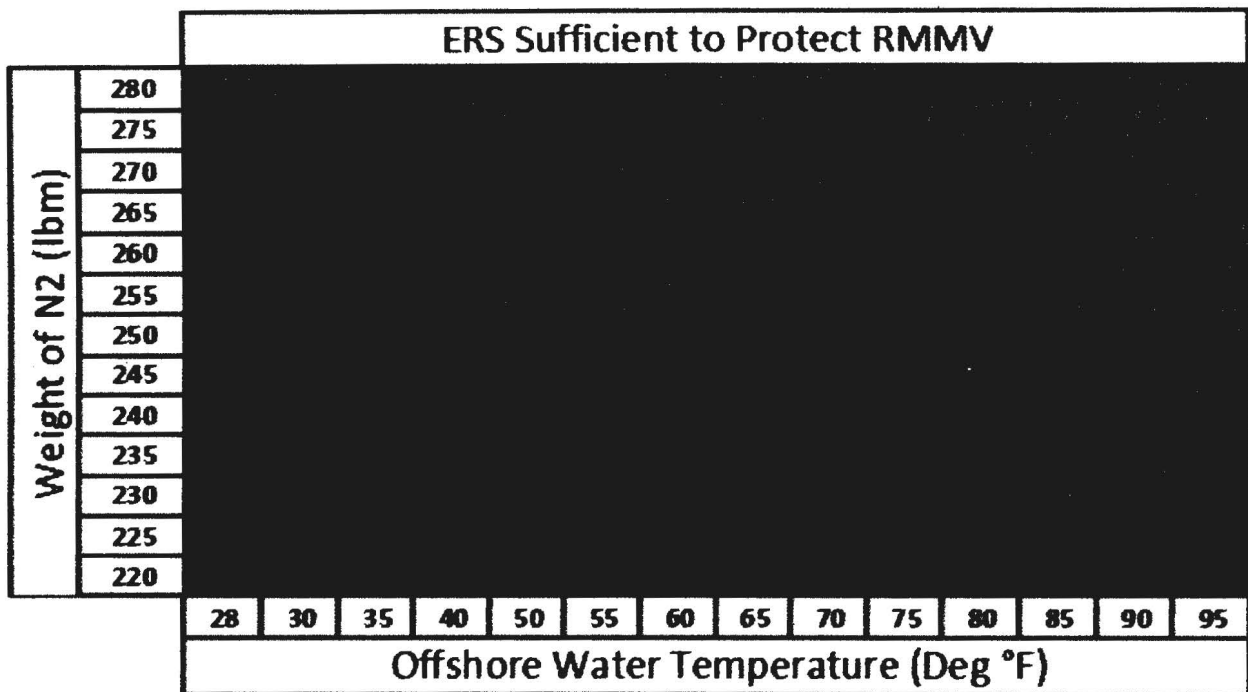
Fig 2. ERS Recharge System Schematic



ERS RECHARGE SYSTEM SCHEMATIC

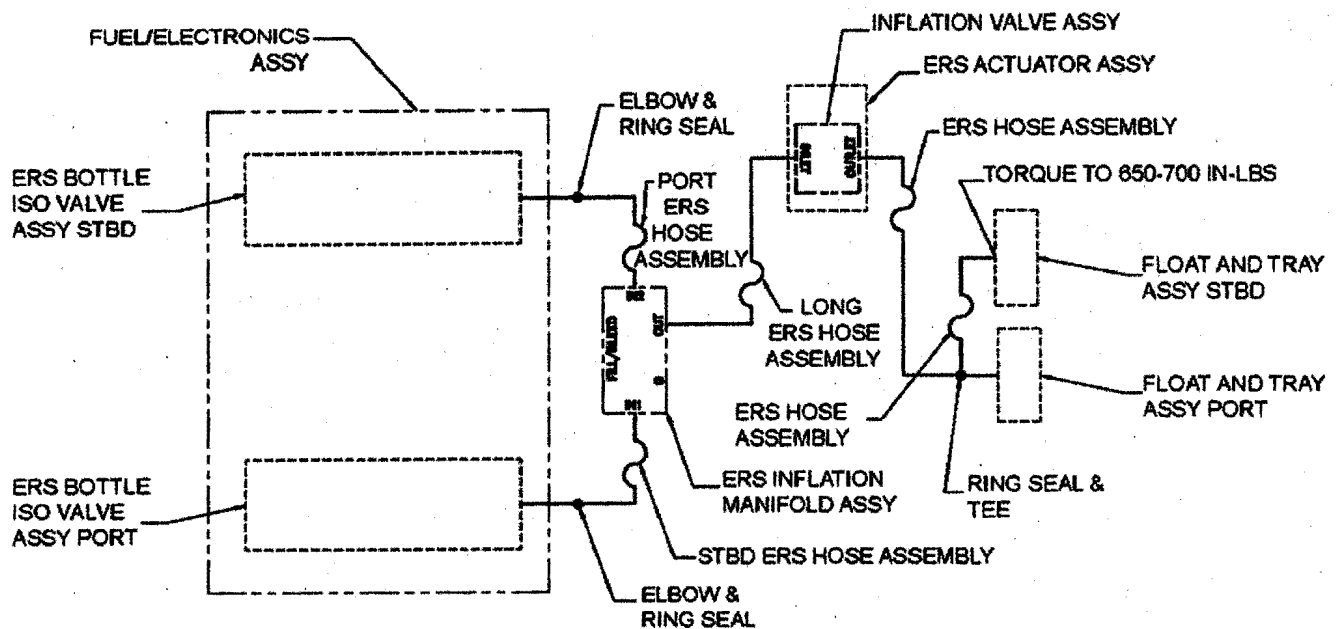
ICN-RMS-R-P00300-N-61331-00009-R-01-1

Fig 3. Weight of N2 as Function of ERS System Pressure and Ambient Temperature



ICN-RMS-A-P08200-N-61331-00002-A-01-1

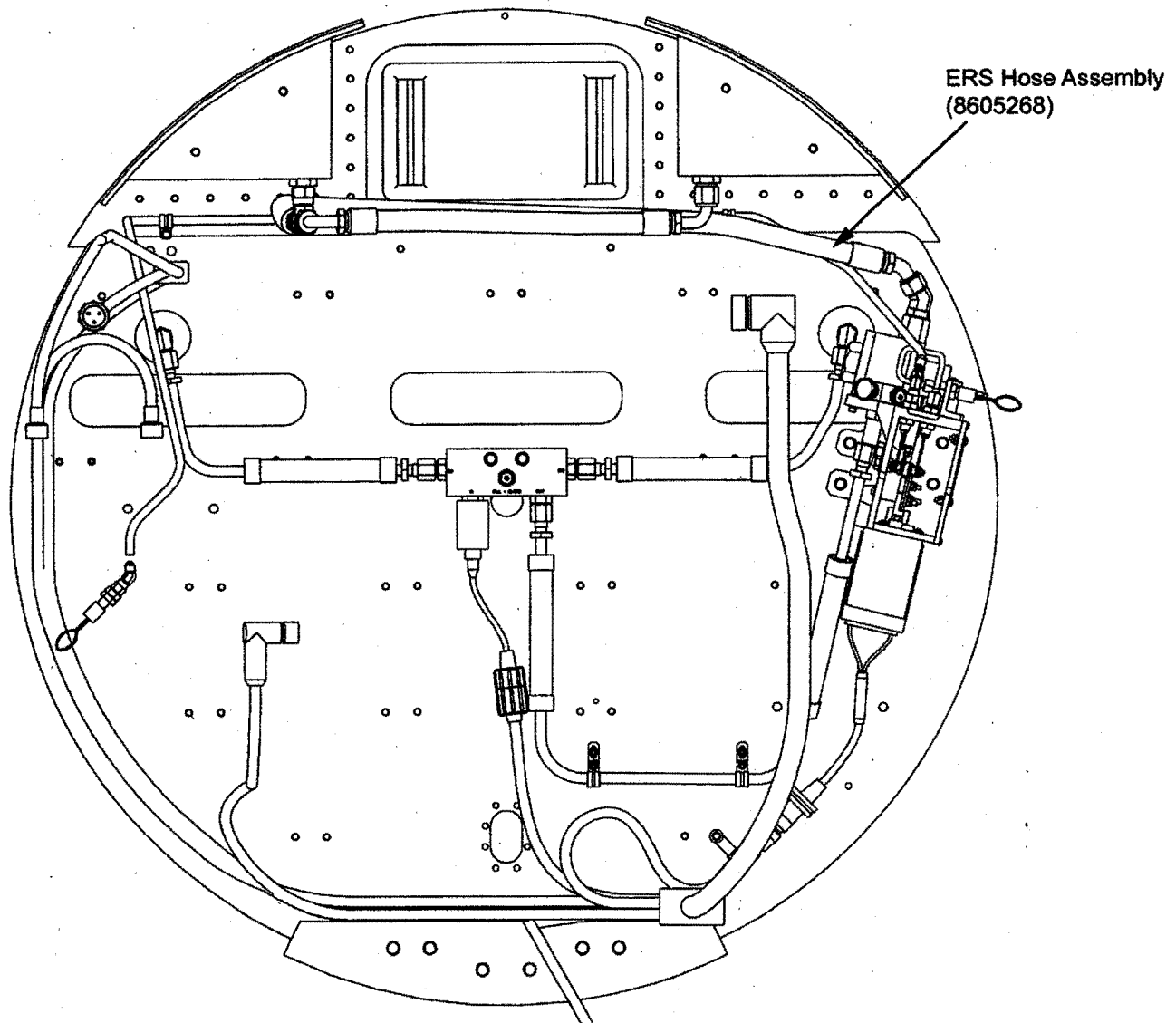
**Fig 4. ERS Interconnect**



## ERS INTERCONNECT DIAGRAM

ICN-RMS-A-P08300-N-61331-00008-A-01-1

Fig 5. ERS Hose Assembly



ICN-RMS-A-P40600-N-61331-00006-A-01-1



## ORIGINATOR:

NAVSUP WSS-MECHANICSBURG, PA, CODE N242, BUILDING 312, TEL: 717-605-8319, DSN: 430-8319  
FAX: 717-605-3480, DSN: 430-3480

REC'D AT NAVSUP WSS: 2/6/2015 FPO#: AP96618 - 2760 UIC#: 20127 TYCOM: SURFPAC

TO CODE:	RELEASE DATE:	INITIALS	<b>SUBJECT:</b> SHIP HAZARDOUS MATERIAL LIST (SHML FEEDBACK REPORT (SFR))  <b>SFR #</b> 5232  <b>ATTACHED FROM (SHIP):</b> USS INDEPENDENCE (LCS-2)  <b>PRODUCT NAME:</b> LOCTITE SUPER GLUE ULTRA GEL CONTROL  <b>DATE ON SFR:</b> 2/6/2015
NAVSUP WSS	2/10/2015	MC	<b>NSN/NIIN:</b> - - - <b>CAGE:</b> 5BAM3
NSWCCD			<b>PART NUMBER/DRAWING/SPECIFICATION:</b> 1363589
ISEA			<b>SHML STATUS:</b> (NIS=Not in SHML; A=Authorized; P= Prohibited; R=Restricted; O=Obsolete; N=Not Determined)  <b>NIS</b>
			<b>MSDS NUMBER:</b> (NIH=Not In HMIRS) NIH
			<b>MIP:</b> NONE  <b>MRC:</b> NONE
LCM/ISEA			<b>MIP/MRC:</b> NONE
			<b>APL:</b> NONE  <b>AEL:</b> NONE
NAVSUP WSS			<b>APL/AEL:</b> NONE
			<b>TECHNICAL MANUAL:</b> NTC
			<b>AIRCRAFT APPLICATIONS:</b> NO
<b>RELATED SFR's:</b> NONE			<b>NOTES:</b> G/V4/H 4 GRAM BOTTLE. NOT FOUND IN NAVY SUPPLY SYSTEM.

Current Date:2/6/2015

**RECEIVED**  
FEB 6, 2015  
BY: SFR-5232

**SHIP'S HAZARDOUS MATERIALS LIST (SHML)  
FEEDBACK REPORT (SFR)**

NIS  
NIT

This form needs to be completed if the Hazardous Material  
that you want to purchase is not authorized on your T-SHML

NOT IN DLSC

N14

SHIP NAME:USS Independence (LCS2)

HULL NUMBER: 2

TYCOM:COMNAVSURFFOR

UIC: 20127

Serial Number:037150850

AIRCRAFT RELATED: ☐ Yes ☒ No

**I. JUSTIFICATION** (To include equipment/application this material is to be used on):

This material is required on the RMMV Mast. It is used to bond the micro vanes on the mast to maintain straight and level flight. The adhesive is used to attach the micro vanes to the mast of our vehicle, as these vanes break up the water flow around the mast reducing torque and improving vehicle performance. During launch and recovery some of these vanes get knocked off and require replacement. See attached Not-to-Configuration (NTC) form for further justification. The Manufacturer is still trying to determine the optimal size and separation of the vanes, that is why we do not have the vanes as part of our baseline configuration.

CURRENTLY USED NSN OR PRODUCT TO BE REPLACED (if applicable):

**II. TECHNICAL DATA**

MAINTENANCE INDEX PAGE (MIP) #:

MAINTENANCE REQUIREMENT CARD (MRC #:

APL OR AEL:

TECH MANUAL: NTC

REV.

ESTIMATED YEARLY REQUIREMENT:

**III. MANUFACTURER DATA** (If requested NSN is provided proceed to section IV)

NSN: - - -

MANUFACTURER: HEXCEL CORP Loctite Corp (CAGE 08028)

PHONE:216 - 475 - 3600

ITEM OR TRADE NAME: Loctite Super Glue Ultra Gel Control

PART NUMBER OR SPECIFICATION: 1363589

UNIT OF ISSUE: 4 BT

UNIT OF MEASURE: ~~Gram tube~~ 4 GRAM

Cage 5BAM3

MSDS ATTACHED  
G/V4/H

**IV. ENDORSEMENTS**

REQUESTORS NAME: Brandon Chennaux

RANK:

EMAIL: Brandon.chennaux@navy.mil

DATE PREPARED:

COMMANDER OR DESIGNEE NAME:

RANK:

EMAIL:

DATE:

SIGNATURE:

CO's signature denotes acceptance of all liabilities associated with  
the procurement and use of this non-SHML hazardous material

Electronic submission of SHML Feedback Report/s constitutes CO's approval

Mail to:

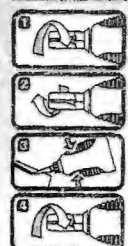
Commanding Officer, NAVSUP Weapons Systems Support  
P.O. Box 2020, Code M0772.22

1-800-624-7767  
 850 AM - 4:15 PM EST, Monday-Friday  
 Long/Voice  
 9:00 AM - 6:00 PM EST  
 www.loctiteproducts.com

**LOCTITE**

**ULTRA GEL CONTROL**

Ultra Gel™ provides a super-tough bond that resists Impact, Shock, Vibration and Temperature Extremes. It is ideal for bonds subject to daily use and harsh conditions. The Rubber Toughened Formula is also Outdoor Safe and gives more time to align pieces before glue takes hold. Ultra Gel™ requiere una unión súper fuerte que resiste impactos, choques, vibración y extremos de temperatura. Es ideal para uniones sujetas al uso diario y condiciones severas. La fórmula endurecida con caucho también es segura para exteriores y proporciona más tiempo para alinear las piezas antes que el pegamento afirme.



- Protect work area. Surfaces should be clean, dry and close fitting. Proteja el área de trabajo. Las superficies deben estar limpias, secas y bien ajustadas.**
- To puncture nozzle, turn cap clockwise until clicking sound stops. - Para perforar la boquilla, gire la tapa en sentido horario hasta que deje de hacer el sonido del clic.**
  - Unscrew cap counterclockwise. - Desenrosque la tapa girando en sentido anti-horario.**
  - Squeeze side grips for precision dispensing. Apply sparingly to one surface. Press part together and hold for 15-30 seconds. - Apriete los asideros laterales para distribuir el producto en forma precisa. Aplique moderadamente sobre una superficie. Presione ambas partes y manténgalas unidas durante 15 a 30 segundos.**
  - Replace cap. For increased strength, leave bond undisturbed for at least five minutes. Reemplace la tapa. Para aumentar la resistencia del producto, no toque las piezas unidas durante al menos cinco minutos.**

Made in Ireland  
 Conforms to ASTM D4236

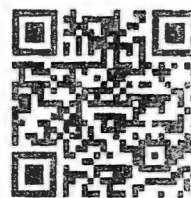
**Henkel Corporation**  
 One Henkel Way  
 Rocky Hill, CT 06067

**NOTE:** not suitable for styrofoam brand insulation products, foam rubber, polyethylene and polypropylene. Bonded items should not be placed in oven, microwave or dishwasher.  
**Fingers bonded?** Apply cooking oil to bonded area of skin. Gently massage bonded fingers back and forth to "peel" bond apart. Use rolling, peeling motion - do not pull.

**NOTA:** este producto no es apto para utilizarse en: espuma de estireno, espuma de caucho, polietileno y polipropileno. Los artículos pegados no deben ser colocados en el horno, horno microondas ni en el lavaplatos. ¿Se le pegaron los dedos? Aplique aceite de cocina en el área de la piel que se pegó. Frote suavemente los dedos pegados hacia adelante y hacia atrás para "pelar" el pegamento. Repita estos movimientos, no hale.

**WARNING!** Contains Cyanoacrylate. Can cause severe eye injury. Bonds skin instantly. May cause allergic skin reaction. Use in a well ventilated area. Skin contact may cause burns. Avoid contact with skin and eyes. **FIRST AID:** In case of eye contact, flush with water for 15 minutes; call a physician. For skin contact, flush with water. For ingestion, do not induce vomiting; call a physician. If spilled on clothing, flush with large quantities of water. **KEEP OUT OF THE REACH OF CHILDREN.**

**ADVERTENCIA:** Contiene Cianoacrilato. Puede provocar una reacción alérgica en la piel. El contacto con la piel a través de la ropa puede causar quemaduras. Evite el contacto prolongado con los ojos y la piel. **PRIMEROS AUXILIOS:** En caso de contacto con los ojos, enjuague con agua durante 15 minutos; llame al médico. En caso de contacto con la piel, enjuáguela con agua. En caso de ingestión, no induzca el vómito; llame al médico. Si se derrama sobre la ropa, enjuáguela con abundante agua. **MANTENGASE FUERA DEL ALCANCE DE LOS NIÑOS.**



0 79340 68607 6

+DH 134 3589

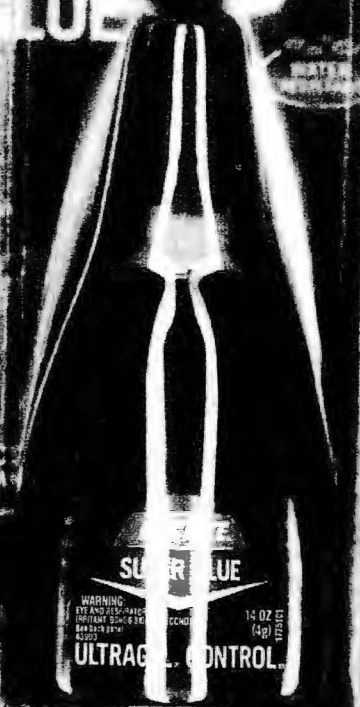
**LOCTITE**

**SUPER BLUE**

**ULTRA GEL™ CONTROL**

**PRECISE APPLICATION**

**NO DRIP OR RUN**  
 SIN GOTERAS  
 NI ESCURRIMIENTOS



**Metal, Rubber, Ceramics, Wood, Leather, Paper & Plastic**

**WARNING:** EYE AND SKIN IRRITANT. See back panel for first aid instructions. 14 OZ (490g)

# Henkel

## TECHNICAL DATA SHEET

Revision: March 5, 2014  
Supersedes: September 30, 2013  
Ref. #: 193380  
Bulk: 1081573

### LOCTITE SUPER GLUE ULTRA GEL CONTROL®

Henkel Corporation  
Professional and Consumer Adhesives  
Rocky Hill, CT 06067  
Phone 1-800-624-7767  
Fax (440) 250-9861  
[www.henkel.com](http://www.henkel.com) [www.loctiteproducts.com](http://www.loctiteproducts.com)



Item #	Package	Size
1363589 1699233 1739050	Carded Bottle	4 g
1801751	Carded Bottle	5 g

#### DESCRIPTION:

Loctite® Super Glue ULTRA Gel Control® is a specially formulated rubber toughened instant adhesive that resists impact, shock, vibration and temperature extremes. It is ideal for bonds subject to daily use and harsh conditions. The Rubber Toughened Formula is also Outdoor Safe and gives more time to align pieces before the glue takes hold. Loctite® Super Glue ULTRA GEL Control® comes in a patented side-squeeze design for maximum control and air-tight storage. It dries clear and sets without clamping. Loctite Super Glue ULTRA Gel Control is resistant to moisture and freezing temperatures.

#### RECOMMENDED FOR:

Use for repairing figurines, costume jewelry, cameras, toys, metal car parts, wiper blades, rubber seals and O-rings. Bonds leather, cork, paper, cardboard, wood, chipboard, fabric, metal, ceramic, rubber and hard plastics such as Plexiglas®, polycarbonate, polystyrene and PVC. Ideal for vertical surfaces and for applications requiring flexibility.

#### NOT RECOMMENDED FOR:

- Polyethylene, polypropylene, polytetrafluoroethylene (PTFE)/Teflon®, silicone rubber, polystyrene foams or glass
- Use in dishwasher, oven or microwave
- Bonding assemblies which will hold hot liquids

#### FEATURES & BENEFITS:

Feature	Benefits
Rubber toughened formula.....	Great for applications requiring high flexibility
Gel formulation.....	No mess, no drip formula; Ideal for vertical applications
Dries transparent.....	Invisible repairs
Sets in seconds.....	No clamping required
Easy squeeze grips.....	Pinpoint accuracy, easy to use

#### DIRECTIONS:

##### Tools Typically Required:

Tissue paper

##### Safety Precautions:

Wear gloves. Protect work area.

##### Preparation:

Surfaces to be bonded must be close fitting, clean, dry and free from oil, wax and paint. For best results, lightly roughen smooth surfaces. Pre-fit parts to be joined.

##### Application:

To puncture the nozzle, screw the cap clockwise continuously into the base until the clicking sound stops. Unscrew the cap counter clockwise to open the bottle. Squeeze the blue side grips to dispense the adhesive. Only one drop of adhesive per square inch of surface is required. Press surfaces together immediately and hold for 15-30 seconds. Do not attempt to reposition the parts. Immediately after use, clean tip with tissue and replace cap. For increased strength, leave the parts undisturbed for at least 10 minutes. Full cure in 24 hours. Note: Cure time is dependent upon temperature, humidity, porosity of surfaces and amount of adhesive applied.

#### Clean-up:

After cleaning, wet any tissue used for wiping off glue with water and dispose of. When cleaning up larger quantities of uncured adhesive, apply water and allow to cure and then scrape up. Note this may result in damage to the surfaces. Cured adhesive may be cut away with caution using a sharp blade, removed with acetone or with boiling water. Note: Acetone is highly flammable and may not be suitable for use on all materials, test surface first. Follow manufacturer's instructions.

### STORAGE AND DISPOSAL

Not damaged by freezing in the unopened container. Optimal shelf life is achieved when unopened container is stored from 36°F to 46°F (2°C to 8°C). After opening, it is not recommended that the product be stored cold or frozen. Once opened, the product is best stored tightly sealed in a dry location away from heat sources or sun exposure. Humidity and high temperatures may decrease shelf life. Use an approved hazardous waste facility for disposal.

### LABEL PRECAUTIONS

**WARNING!** Contains Cyanoacrylate. May cause allergic skin reaction. Skin contact through clothing may cause burns. Avoid contact with skin and eyes.  
**FIRST AID:** In case of eye contact, flush with water for 15 minutes; call a physician. For skin contact, flush with water. For ingestion, do not induce vomiting; call a physician. If spilled on clothing, flush with large quantities of water. **KEEP OUT OF THE REACH OF CHILDREN.**

Refer to the Material Safety Data Sheet (MSDS) for further information

### DISCLAIMER

The information and recommendations contained herein are based on our research and are believed to be accurate, but no warranty, express or implied, is made or should be inferred. Purchasers should test the products to determine acceptable quality and suitability for their own intended use. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

### TECHNICAL DATA

Typical Uncured Physical Properties		Typical Application Properties	
<u>Color:</u>	Clear and colorless	<u>Application Temperature:</u>	Do not apply below 50°F (10°C)
<u>Appearance:</u>	Gel	<u>Odor:</u>	Sharp, irritating (use in a well-ventilated area)
<u>Base:</u>	Ethyl Cyanoacrylate	<u>Fixture Time:</u>	15-30 seconds
<u>Specific Gravity:</u>	1.05	<u>Handling Time:</u>	Leave undisturbed for at least 10 minutes. For best results, allow full bond strength to develop overnight before handling.
<u>Viscosity:</u>	Approx. 50,000 cps at 77°F	<u>Cure Time:</u>	24 hours
<u>Flashpoint:</u>	176°F (80°C) to 200°F (93.4°C)		
<u>VOC Content:</u>	< 2% by weight (< 20 g/L)		Note: Cure time is dependent upon temperature, humidity, porosity of surfaces bonded and amount of adhesive used
<u>Shelf Life:</u>	From date of manufacture (unopened): Stored at 2-8°C: 24 months Stored at 20°C: 18 months		
<u>Lot Code Explanation:</u>	YDDDXX Y = Last Digit of Year of Manufacture DDD = Day of Manufacture based on 365 days in a year XX = Disregard		
(Lot code printed on bottom of bottle)	For example: 3061 = 61 <sup>st</sup> day of 2013 = March 2, 2013		

# Material Safety Data Sheet



Revision Number: 001.1

Issue date: 01/27/2012

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite Super Glue Ultra Gel  
Product type: Super glue

IDH number: 1363589  
Item number: 1363589  
Region: United States

Company address:  
Henkel Corporation  
One Henkel Way  
Rocky Hill, Connecticut 06067

Contact information:  
Telephone: 800.624.7767  
MEDICAL EMERGENCY Phone: Poison Control Center  
1-877-671-4608 (toll free) or 1-303-592-1711  
TRANSPORT EMERGENCY Phone: CHEMTREC  
1-800-424-9300 (toll free) or 1-703-527-3887

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Physical state: liquid  
Color: colourless  
Odor: irritating

#### HMS:

HEALTH: 2  
FLAMMABILITY: 2  
PHYSICAL HAZARD: 1  
Personal Protection: See MSDS Section 8

**WARNING:** BONDS SKIN IN SECONDS.  
MAY CAUSE EYE AND RESPIRATORY TRACT IRRITATION.  
COMBUSTIBLE LIQUID AND VAPOR.

Relevant routes of exposure: Skin, Inhalation, Eyes

### Potential Health Effects

**Inhalation:** Exposure to vapors above the established exposure limit results in respiratory irritation, which may lead to difficulty in breathing and tightness in the chest.  
**Skin contact:** Bonds skin in seconds. May cause skin irritation. Cyanoacrylates have been reported to cause allergic reaction but due to rapid polymerization at the skin surface, an allergic response is rare. Cyanoacrylates generate heat on solidification. In rare circumstances a large drop will burn the skin. Cured adhesive does not present a health hazard even if bonded to the skin.  
**Eye contact:** Irritating to eyes. Causes excessive tearing. Eyelids may bond.  
**Ingestion:** Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It is almost impossible to swallow.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders.

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

See Section 11 for additional toxicological information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Ethyl 2-cyanoacrylate	7085-85-0	60 - 100

## 4. FIRST AID MEASURES

**Inhalation:** Move to fresh air. If symptoms persist, seek medical advice.

IDH number: 1363589

Page 1 of 5

Product name: Loctite Super Glue Ultra Gel



**Skin contact:**

Do not pull bonded skin apart. Soak in warm soapy water. Gently peel apart using a blunt instrument. If skin is burned due to the rapid generation of heat by a large drop, seek medical attention. If lips are bonded, apply warm water to the lips and encourage wetting and pressure from saliva in mouth. Peel or roll lips apart. Do not pull lips apart with direct opposing force.

**Eye contact:**

Immediately flush with plenty of water for at least 15 minutes. Get medical attention. If eyelids are bonded closed, release eyelashes with warm water by covering with a wet pad. Do not force eye open. Cyanoacrylate will bond to eye protein and will cause a lachrymatory effect which will help to debond the adhesive. Keep eye covered until debonding is complete, usually within 1-3 days. Medical attention should be sought in case solid particles of polymerized cyanoacrylate trapped behind the eyelid caused abrasive damage.

**Ingestion:**

Ensure breathing passages are not obstructed. The product will polymerize rapidly and bond to the mouth making it almost impossible to swallow. Saliva will separate any solidified product in several hours. Prevent the patient from swallowing any separated mass.

**Notes to physician:**

Surgery is not necessary to separate accidentally bonded tissues. Experience has shown that bonded tissues are best treated by passive, non-surgical first aid. If rapid curing has caused thermal burns they should be treated symptomatically after adhesive is removed.

**6. FIRE FIGHTING MEASURES****Flash point:**

80 - 93.4 °C (176°F - 200.12 °F) Tagliabue closed cup

**Autoignition temperature:**

Not available.

**Flammable/Explosive limits - lower:**

Not available.

**Flammable/Explosive limits - upper:**

Not available.

**Extinguishing media:**

Dry powder, foam Carbon dioxide.

**Special firefighting procedures:**

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).

**Unusual fire or explosion hazards:**

Not available.

**Hazardous combustion products:**

Trace amounts of toxic and/or irritating fumes may be released and the use of breathing apparatus is recommended.

**7. ACCIDENTAL RELEASE MEASURES**

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

**Environmental precautions:**

Do not allow product to enter sewer or waterways.

**Clean-up methods:**

Do not use cloths for mopping up. Flood with water to complete polymerization and scrape off the floor. Cured material can be disposed of as non-hazardous waste.

**8. HANDLING AND STORAGE****Handling:**

Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of this product. Wash thoroughly after handling. Avoid contact with fabric or paper goods. Contact with these materials may cause rapid polymerization which can generate smoke and strong irritating vapors, and cause thermal burns.

**Storage:**

Keep in a cool, well ventilated area away from heat, sparks and open flame.  
Keep container tightly closed until ready for use.  
Keep in a cool, well ventilated area away from heat, sparks and open flame.  
Keep container tightly closed until ready for use.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

**9. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Ethyl 2-cyanoacrylate	0.2 ppm TWA	None	None	None

**Engineering controls:**

Use positive down-draft exhaust ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.

**Respiratory protection:**

Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

**Eye/face protection:**

Safety goggles or safety glasses with side shields.

**Skin protection:**

Use nitrile gloves and aprons as necessary to prevent contact. Do not use PVC, nylon or cotton.

**10. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state:	liquid
Color:	colourless
Odor:	irritating
Odor threshold:	Not available.
pH:	Not available.
Vapor pressure:	< 0.2 mm hg < 0.2 mm hg
Boiling point/range:	> 300 °F (> 148.9 °C) None > 300 °F (> 148.9 °C) None
Melting point/ range:	Not available.
Vapor density:	Not available.
Flash point:	80 - 93.4 °C (176°F - 200.12 °F) Tagliabue closed cup
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not available.
Evaporation rate:	Not available.
Solubility in water:	Polymerises in presence of water.
Partition coefficient (n-octanol/water):	Not available.
VOC content:	Not available.

**11. STABILITY AND REACTIVITY****Stability:**

Stable under recommended storage conditions.

**Hazardous reactions:**

Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.

**Hazardous decomposition products:**

None

**Incompatible materials:**

Water, Amines, Alkalis, Alcohols.

**Conditions to avoid:**

None if used for intended purpose.



**11. TOXICOLOGICAL INFORMATION**

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Ethyl 2-cyanoacrylate	No	No	No
Hazardous components	Health Effects/Target Organs		
Ethyl 2-cyanoacrylate	Irritant, Allergen, Respiratory		

**12. ECOLOGICAL INFORMATION**

Ecological information: Not available.

**13. DISPOSAL CONSIDERATIONS**

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number: It is the responsibility of the user to determine if an item is hazardous as defined in the Resource Conservation and Recovery Act (RCRA) at the time of disposal. Product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of ignitability, corrosivity, reactivity and toxicity characteristics of the Toxicity Characteristics Leaching Procedure (TCLP) 40 CFR 261.20-24.

**14. TRANSPORT INFORMATION**

The shipping classification in this section are for bulk packaging only. Shipping classification may be different for non-bulk packaging as exceptions may apply. Refer to shipping documents for package specific transportation classification.

**U.S. Department of Transportation Ground (49 CFR)**

Proper shipping name: Combustible liquid, n.o.s. (Cyanoacrylate ester)  
Hazard class or division: Combustible Liquid  
Identification number: NA 1993  
Packing group: III  
Exceptions: (Not more than 450 Liters). Unrestricted

**International Air Transportation (ICAO/IATA)**

Proper shipping name: Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)  
Hazard class or division: 9  
Identification number: UN 3334  
Packing group: None  
Exceptions: Not more than 500 ml (each inner package) - Unrestricted

**Water Transportation (IMO/MDG)**

Proper shipping name: Not regulated  
Hazard class or division: None  
Identification number: None  
Packing group: None

**15. REGULATORY INFORMATION****United States Regulatory Information**

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.  
TSCA 12(b) Export Notification: None above reporting de minimus  
CERCLA/SARA Section 302 EHS: None above reporting de minimus  
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health, Fire, Reactive  
CERCLA/SARA 313: None above reporting de minimus

**California Proposition 65:**

No California Proposition 65 listed chemicals are known to be present.

**Canada Regulatory Information**

**CEPA DSL/NDSL Status:**

Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

**WHMIS hazard class:**

B.3, D.2.B

**10. OTHER INFORMATION**

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

Prepared by: Karim Nasr, Regulatory Affairs Specialist

**DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

<b>Typical Cured Performance Properties</b>
---

<u>Colour:</u>	Clear and colourless
<u>Cured form:</u>	Non-flammable, flexible solid
<u>Service Temperature:</u>	Up to 180°F (82°C)
<u>Moisture Resistance:</u>	Yes. Conforms to EN204 D3 Water Resistance Standard.
<u>Bond Strength (Tensile Shear, ISO 4587):</u>	Varies from 1450-2900 psi (15-25 N/mm <sup>2</sup> ) in 12-24 hours, depending on the substrate
<u>For Aluminum:</u>	3060 psi (21.12 N/mm <sup>2</sup> )
<u>Peel Strength:</u> (Aluminum)	14.28 lb/in (2.5 N/mm)
<u>Drops to break bonded item:</u>	> 60 times

## Prototype Microvane Installation Guide

- 1) The microvanes should be installed with the mast in the lowered secure position.
- 2) Wipe clean the bottom surface of each microvane with Isopropyl Alcohol.
- 3) The microvanes will be installed on both sides of the straight section of lower mast from the base to exhaust opening. Wipe clean these regions with Isopropyl alcohol .
- 4) Mark a line (pencil) parallel to mast trailing edge, 17 cm from trailing edge. This should place the edge of the microvane approximately 18 cm from the leading edge. Verify this distance by placing the template over the microvanes previously installed on RMMV 7 or 10 and measuring from the mast trailing edge to the top edge of the template.
- 5) Tape top edge of template to align with line.
- 6) Orient the template such that when the mast is in the fully raised position the microvane pairs form a V as shown in Figure 1.
- 7) Apply Loctite Super Glue Ultra Gel Control (4g) Vendor P/N 1363589 to cleaned bottom surface and place MV in cutout template slot.
- 8) After glue dries fill any voids between mast and MV base with Loctite Super Glue Ultra Liquid Control (4g) Vendor P/N 1647358.
- 9) Move template over for next section overlapping last pair of MV's to assure correct orientation and alignment.
- 10) Clean up.
- 11) Perform final inspection to assure no microvanes are loose and all are oriented correctly.

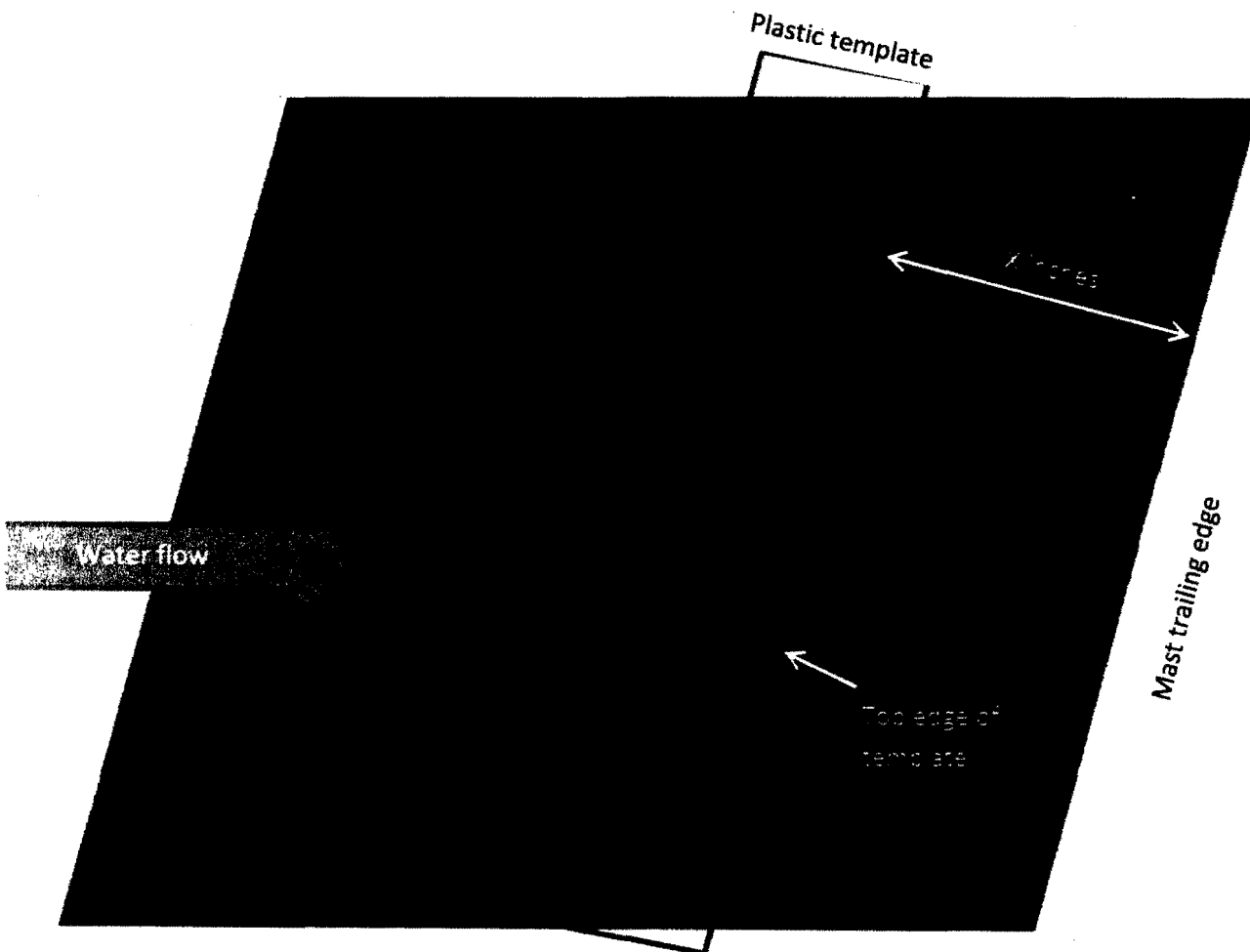


Figure 1

## NOT-TO-CONFIGURATION (NTC) FORM

<b>NOT-TO-CONFIGURATION (NTC)</b>	<b>NTC Number:</b> <u>567A-14-N1480</u>
-----------------------------------	---

<b>PART NUMBER:</b> <u>7417813</u>	<b>PART NAME:</b> <u>MAST, LOWER ASSY</u>	<b>REV:</b> <u>G</u>
<b>PROGRAM ENTITY:</b> <u>567ASV7</u>	<b>VEHICLE S/N:</b> <u>RMMV 9</u>	<b>DATE:</b> _____
<b>LABOR CHARGE NUMBER:</b> <u>1Q567ASV7LBS</u>	<b>MATERIAL CHARGE NUMBER:</b> <u>1Q567ASV7LBM</u>	
<b>REF. DOCUMENTS:</b> <u>P:Wld1Wld1HoldNavControl IPT Load Bias03 PresentationsRGP T115 Load Bias MIPT slides 20140407.pptx</u>	<b>SPR NUMBER (IF APPLICABLE):</b> <u>SPR# 16686</u>	

<b>PURPOSE OF NTC REQUEST</b> (Engineering Evaluation or Nonconformance Issue)
---

**DESCRIPTION OF NONCONFORMANCE:**

This NTC approves the bonding of micro vanes to the mast with Loctite Super Glue Ultra Gel Control (mfg p/n 1363589) and Loctite Super Glue Ultra Liquid Control (mfg p/n 1647358) as shown below.

**DESCRIPTION OF ENGINEERING EVALUATION:**

The flow around the RMMV Mast is susceptible to separation at or near normal operating conditions resulting in very high control torques required to maintain straight and level flight. This has been observed across the RMMV fleet. The onset of this separation produces high loads on the mast, resulting in operation at abnormal sideslip conditions, requiring excessive control forces. Engineering supplied micro vanes approximately 0.1" high, 3/4" long, and 1/8" wide will be bonded to the mast, using Loctite Super Glue Ultra Gel Control (mfg p/n 1363589) and Loctite Super Glue Ultra Liquid Control (mfg p/n 1647358), at a spacing of 10 pairs / foot, located longitudinally just upstream of the inflection point in the airfoil.

Risk Analysis for adding microvanes to the mast: No risk to vehicle. Micro vanes will reduce control torques required to maintain straight and level flight. Note that this implementation is a prototype for the four v6.0 vehicles. A tactical plan is being developed under T1-15 and will provide details for the tactical microvane configuration.

**Justification for selected adhesive:**

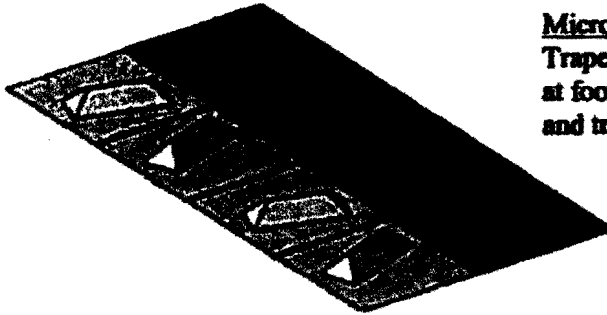
1. Initially recommended and tested by LM Aero, Ft. Worth
2. The Loctite gel cement is viscous enough to allow in-situ installation of the vanes on a fully assembled vehicle, has adequate cure time to allow accurate installation, does not run, but sets fast enough to be efficient with the installation process, and not disturb previously installed micro vanes. This adhesive was tested against other cements with the Loctite product proving to be superior for these characteristics. The installation process will allow for liquid adhesive to be used to fill any voids remaining after the initial gel application.
3. The bonded shear strength of >1500 PSI is adequate for this application. The installation process will assure that the surface is suitably prepared for installation by using isopropyl alcohol to clean it.

**Risk Analysis for selected adhesive:**

Short Term: The short term risk is low based on testing to date on RMMV 7 & 10. Microvanes (MV's) were installed on these vehicles in December 2013. RMMV 7 has not been on a mission since the MV's were installed. Two MV's were damaged during removal of the mast for v6.0 implementation. The glue is still translucent showing no signs of degradation. RMMV 10 has had 8 missions since the MV's were installed with 58 hours of submerged operation and 14 hours on the surface. No micro vanes were lost or damaged during this period. One was damaged during removal of the mast for v6.0 implementation. The glue is still translucent showing no signs of degradation.

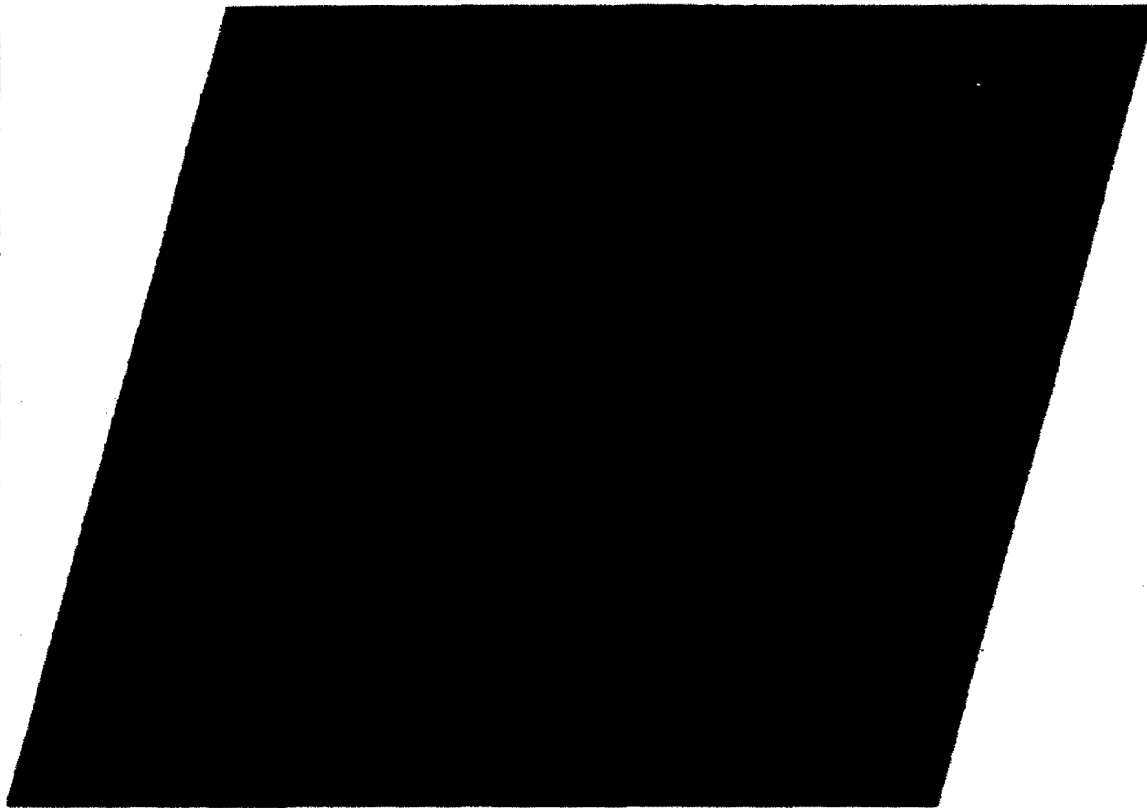
## NOT-TO-CONFIGURATION (NTC) FORM

Long Term: According to the manufacturer, this product has not been tested in a marine environment, but if degradation were to occur, it does not happen suddenly as observed by testing to date. The adhesive dries clear. If the adhesive were to degrade due to its environment it would present itself as gradual whitening and swelling caused by seawater uptake. It is recommended to perform periodic inspections at 3 month intervals looking for signs of degradation.

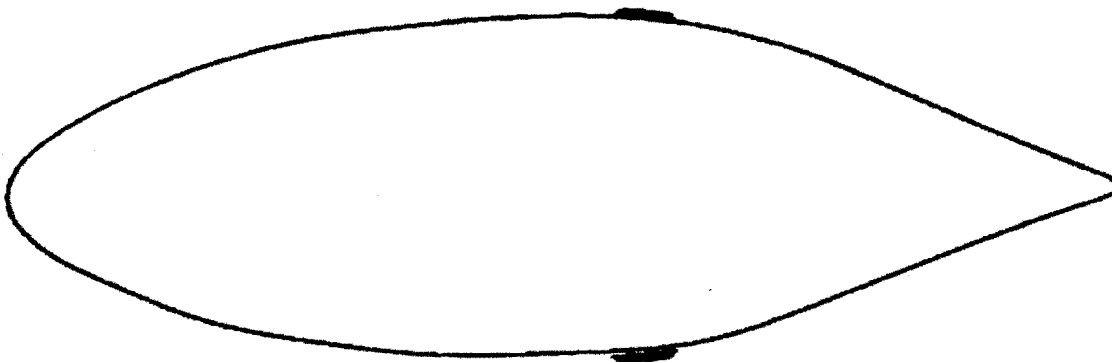
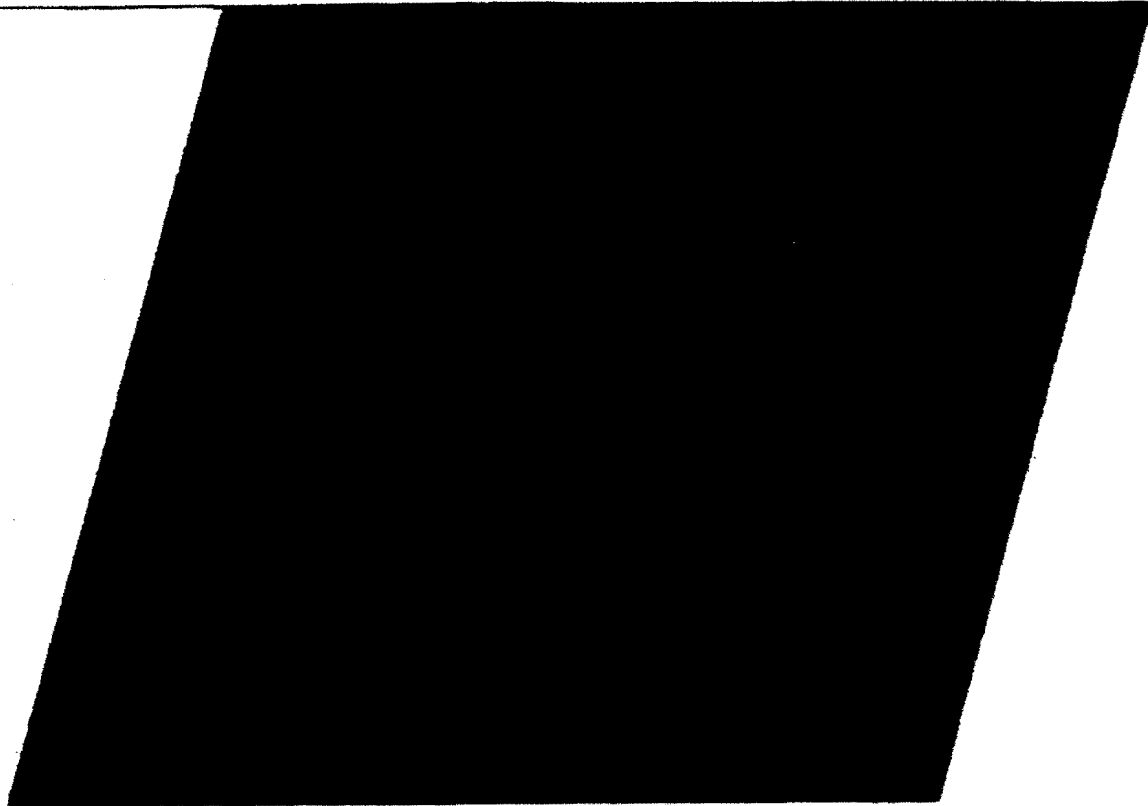


### Micro vanes

Trapezoidal in shape – rectangular at foot, triangular in cross section, and trapezoidal in side view



**NOT-TO-CONFIGURATION (NTC) FORM**



**NOTE NCM #:**

# **NOT-TO-CONFIGURATION (NTC) FORM**

NONCONFORMING HARDWARE TO BE INSTALLED		
QTY	PART #	PART DESCRIPTION
TBD		Micro Vanes
AR	1363589	Loctite Super Glue Ultra Gel Control
AR	1847358	Loctite Super Glue Ultra Liquid Control

BILL OF MATERIAL		
QTY	PART #	PART DESCRIPTION
8		Loctite Super Glue Ultra Gel Control (4g) Vendor P/N 1363589
8		Loctite Super Glue Ultra Liquid Control (4g) Vendor P/N 1847358

OPS	WORK TO BE PERFORMED
5	From Stockroom 1. Create an EWI per the NTC, 567A-14-N____ A. Provide the NTC with the Traveler. B. Create Pick List per the NTC BOM 2. Pick and issue the contents of the BOM
10	Mech Shop 1. Ensure that the RMMV vehicle power is disabled with appropriate Lock-Out / Tag-Out applied. 2. Adhere to Shop Policies when working at elevated heights. 3. Coordinate with and support Tech Ops installing the Micro Vanes to the straight section of the Lower Mast between the base and exhaust opening with provided Loctite Super Glue per its Mfg Inst and NTC 567A-14-N____. A. Tech Ops POC is Carl Thomsen, 494-2402. B. The Micro Vanes are to be installed with 10 Pairs per Foot in a Zig Zag Pattern along the widest cross-section, both Port and Starboard. C. See attached Installation Guide.
9800	Inspection 1. Inspect the installed Micro Vanes per NTC 567A-14-N
9885	To Stockroom 1. Close this EWI. 2. Issue the installed parts to

<b>INITIAL APPROVAL BY:</b>		
	Signature	Date
<b>RESPONSIBLE ENGINEER (RE):</b>	<u>C. Thomsen</u>	<u>7/22/14</u>
<b>PROJECT ENGINEER (EPM):</b>	<u>Austin Long</u>	<u>7/22/14</u>
<b>MANUFACTURING PROGRAM MANAGER(MPM):</b>	<u>[Signature]</u>	<u>7/24/14</u>
<b>QUALITY ENGINEER (QE):</b>	<u>Anthony Bror</u>	<u>7/23/14</u>
<b>CUSTOMER APPROVAL:</b>	_____	_____



## NOT-TO-CONFIGURATION (NTC) FORM

### ACTION TO CLOSE (CHECK ONE)

REWORK TO TDP ☐ REWORK ORDER # \_\_\_\_\_  
TDP CHANGE ☐ FUNDED? ☐ DATE: \_\_\_\_\_ NOR# \_\_\_\_\_  
QA INSPECTION ☐ LOCATION: \_\_\_\_\_  
CUSTOMER APPROVAL OF DEVIATION ☒ X  
OTHER ☐ DESCRIPTION OF OTHER ACTION: \_\_\_\_\_

### ACTION REQUIRED (CHECK ONE)

NO WORK ORDER NEEDED (PRE-EXISTING CONDITION) ☐  
WORK ORDER GENERATED BY NCM ☐ WORK ORDER # \_\_\_\_\_  
NEW/MODIFICATION OF WORK ORDER REQUIRED ☒ X WORK ORDER # \_\_\_\_\_

### NTC CLOSURE:

MISSION SUCCESS: \_\_\_\_\_ DATE: \_\_\_\_\_

### SUPPORTING DOCUMENTATION:

I.E. WORK ORDER AND/OR DOCUMENTATION THAT CONFIRMS APPROVED VEHICLE CONFIGURATION

## Prototype Microvane Installation Guide

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- 10) Clean up.
- 11) Perform final inspection to assure no microvanes are loose and all are oriented correctly.

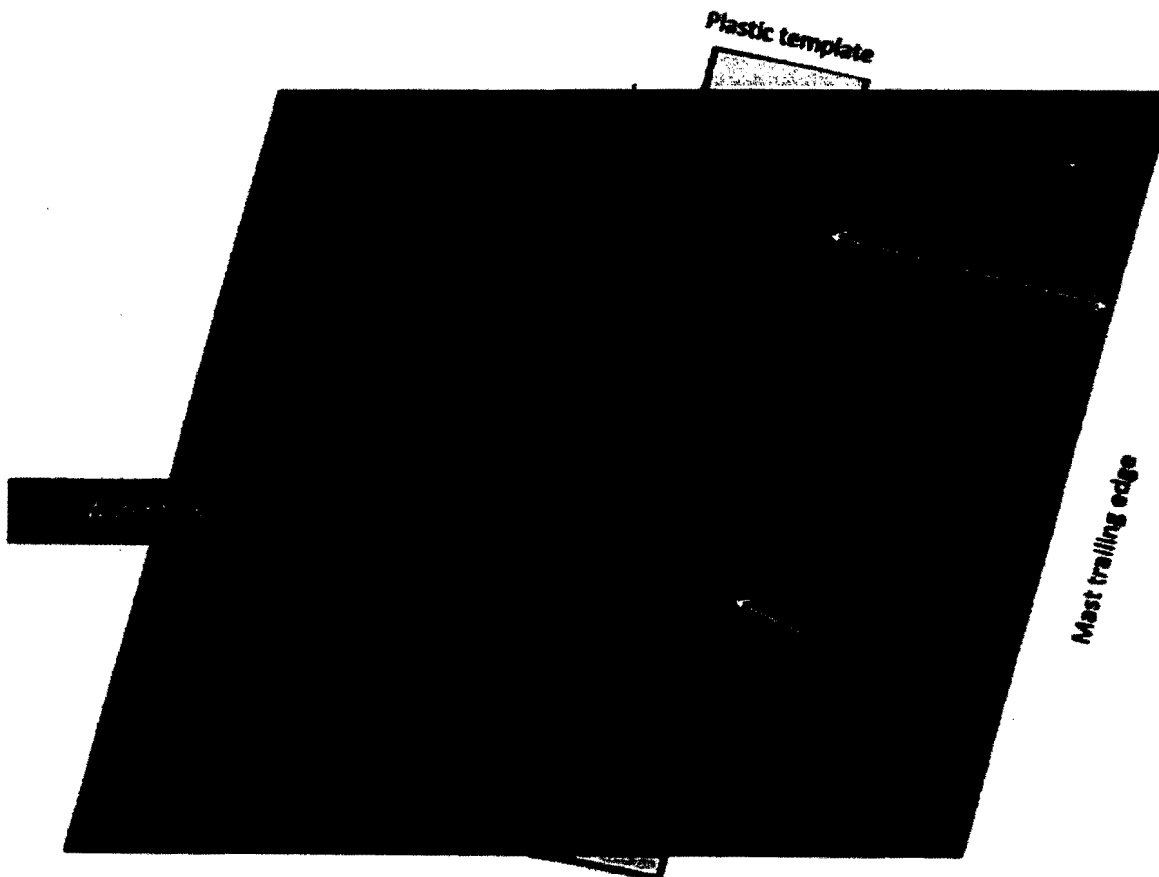


Figure 1

**From:** Beckerman, Jonathan E  
**To:** Loring, Andrew J; Hawley, Paul  
**Cc:** Long, A; Bowers, Matthew; Moyer, Connie S; Norman, Steven  
**Subject:** FW: NTC RMMV 9 Microvane Install  
**Date:** Wednesday, July 23, 2014 3:06:33 PM  
**Attachments:** NTC RMMV 9 Microvanes.pdf

---

AJ, Paul,  
Please log & distribute this approved NTC.

Thank you,

Jon  
Ph: 561-494-2597

-----Original Message-----

**From:** McInnes, Caitlin CIV PEO LCS, PMS 403 [mailto:caitlin.mcinnnes@navy.mil]  
**Sent:** Wednesday, July 23, 2014 2:58 PM  
**To:** Bates, Lawrence J CIV PORTS, 206; Shah, Shreyansh K CIV PEO LCS, PMS 403; Radvansky, Charles S CIV NAVSEA HQ, SEA 05; Beckerman, Jonathan E  
**Cc:** Dave Dillinger; Dillinger, David (N-ENGILITY CORPORATION); Arteiro, Jose C (N-Navy); Arteiro, Jose C CIV NUWC NWPT; Arteiro, Jose  
**Subject:** EXTERNAL: RE: NTC RMMV 9 Microvane Install

NTC Approved for RMMV 9.

V/r  
Cait

-----Original Message-----

**From:** Bates, Lawrence J CIV PORTS, 206  
**Sent:** Wednesday, July 23, 2014 2:56 PM  
**To:** McInnes, Caitlin CIV PEO LCS, PMS 403; Shah, Shreyansh K CIV PEO LCS, PMS 403; Radvansky, Charles S CIV NAVSEA HQ, SEA 05  
**Cc:** Dave Dillinger; Dillinger, David (N-ENGILITY CORPORATION); Arteiro, Jose C (N-Navy); Arteiro, Jose C CIV NUWC NWPT; Arteiro, Jose  
**Subject:** RE: NTC RMMV 9 Microvane Install

Jose; Concur on subject NTC.

VR  
Larry

-----Original Message-----

**From:** Beckerman, Jonathan E [mailto:jonathan.e.beckerman@lmco.com]  
**Sent:** Wednesday, July 23, 2014 2:02 PM  
**To:** McInnes, Caitlin CIV PEO LCS, PMS 403; Shah, Shreyansh K CIV PEO LCS, PMS 403  
**Cc:** Dave Dillinger; Dillinger, David (N-ENGILITY CORPORATION); Bates, Lawrence J CIV PORTS, 206; Arteiro, Jose C (N-Navy); Arteiro, Jose C CIV NUWC NWPT; Arteiro, Jose  
**Subject:** RE: NTC RMMV 9 Microvane Install

Cait, Shrey,

Attached is a revised NTC for RMMV 9 Microvances. Revisions are consistent with meeting notes from the 7/2/2014 telecon. Please review, and approve if you concur.

Jon

Ph: 561-494-2597

From: Beckerman, Jonathan E  
Sent: Tuesday, June 24, 2014 4:35 PM  
To: Arteiro, Jose C (N-Navy); Arteiro, Jose C CIV NUWC NWPT; NUWC NWPT Arteiro  
(jose.arteiro@autec.navy.mil)  
Cc: Dave Dillinger; Dillinger, David (N-ENGILITY CORPORATION)  
Subject: NTC RMMV 9 Microvane Install

José,

Attached is a NTC for RMMV 9 Microvane install. Please review, and approve if you concur.

Thank you,

Jon

---

Jon Beckerman  
RMMV Program Manager  
Mission Systems & Training – Palm Beach  
Lockheed Martin  
100 East 17th St  
Riviera Beach, FL 33404  
Tel: (561) 494-2597

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## ORIGINATOR:

NAVSUP WSS-MECHANICSBURG, PA, CODE N242, BUILDING 312, TEL: 717-605-8319, DSN: 430-8319

FAX: 717-605-3480, DSN: 430-3480

REC'D AT NAVSUP WSS: 2/6/2015 FPO#: AP96618 - 2760 UIC#: 20127 TYCOM: SURFPAC

TO CODE:	RELEASE DATE:	INITIALS	SUBJECT: SHIP HAZARDOUS MATERIAL LIST (SHML FEEDBACK REPORT (SFR))  SFR # 5233  ATTACHED FROM (SHIP): USS INDEPENDENCE (LCS-2)  PRODUCT NAME: LOCTITE SUPER GLUE ULTRA LIQUID CONTROL  DATE ON SFR: 2/6/2015
NAVSUP WSS	2/10/2015	MC	NSN/NIIN: --- CAGE: 5BAM3
NSWCCD			PART NUMBER/DRAWING/SPECIFICATION: 1647358
ISEA			SHML STATUS: (NIS=Not in SHML; A=Authorized; P= Prohibited; R=Restricted; O=Obsolete; N=Not Determined) NIS
			MSDS NUMBER: (NIH=Not In HMIRS) NIH
			MIP: NONE
			MRC: NONE
LCM/ISEA			MIP/MRC: NONE
			APL: NONE
			AEL: NONE
NAVSUP WSS			APL/AEL: NONE
			TECHNICAL MANUAL: NTC
			AIRCRAFT APPLICATIONS: NO
RELATED SFR's: NONE			NOTES: G/V4/H 4 GRAM BOTTLE. NOT FOUND IN NAVY SUPPLY SYSTEM.

Current Date: 2/6/2015

**RECEIVED**  
FEB 6, 2015  
BY: SFR 5233

**SHIP'S HAZARDOUS MATERIALS LIST (SHML)  
FEEDBACK REPORT (SFR)**

NIS  
NIT  
NOT IN DLSC  
NIH

This form needs to be completed if the Hazardous Material  
that you want to purchase is not authorized on your T-SHML

SHIP NAME: USS Independence (LCS2) HULL NUMBER: 2 TYCOM: COMNAVSURFFOR  
UIC: 20127 Serial Number: 037150846 AIRCRAFT RELATED: ☐ Yes x No

**I. JUSTIFICATION** (To include equipment/application this material is to be used on):  
This material is required on the RMMV Mast. It is used to bond the micro vanes on the mast to maintain straight and level flight. The adhesive is used to attach the micro vanes to the mast of our vehicle, as these vanes break up the water flow around the mast reducing torque and improving vehicle performance. During launch and recovery some of these vanes get knocked off and require replacement. See attached Not-to-Configuration (NTC) form for further justification. The Manufacturer is still trying to determine the optimal size and separation of the vanes, that is why we do not have the vanes as part of our baseline configuration.

CURRENTLY USED NSN OR PRODUCT TO BE REPLACED (if applicable):

**II. TECHNICAL DATA**

MAINTENANCE INDEX PAGE (MIP) #: \_\_\_\_\_  
MAINTENANCE REQUIREMENT CARD (MRC #: \_\_\_\_\_ APL OR AEL: \_\_\_\_\_  
TECH MANUAL: NTC REV. \_\_\_\_\_ ESTIMATED YEARLY REQUIREMENT: \_\_\_\_\_

**III. MANUFACTURER DATA** (If requested NSN is provided proceed to section IV)

NSN: \_\_\_\_\_  
MANUFACTURER: HENKEL CORP. (CAGE 08028) PHONE: 216 - 475 - 3600  
800-626-7767  
ITEM OR TRADE NAME: Loctite Super Glue Ultra Liquid Control  
PART NUMBER OR SPECIFICATION: 1647358  
UNIT OF ISSUE: 4 BT UNIT OF MEASURE: Gram Tube 4 GRAM

Cage 5BAMB

MSDS ATTACHED  
G/V4/H

**IV. ENDORSEMENTS**

4.37 EA.

REQUESTORS NAME: Brandon Chennaux RANK: \_\_\_\_\_  
EMAIL: Brandon.chennaux@navy.mil DATE PREPARED: \_\_\_\_\_  
COMMANDER OR DESIGNEE NAME: \_\_\_\_\_ RANK: \_\_\_\_\_  
EMAIL: \_\_\_\_\_ DATE: \_\_\_\_\_  
SIGNATURE: \_\_\_\_\_

CO's signature denotes acceptance of all liabilities associated with  
the procurement and use of this non-SHML hazardous material

Electronic submission of SHML Feedback Report/s constitutes CO's approval

Mail to:  
Commanding Officer, NAVSUP Weapons Systems Support  
P.O. Box 2020, Code M0772.22

Ward, Wood  
Lambert, Hubert, Proprietor  
Carnegie & Mont View



Revision: March 11, 2014  
Supersedes: September 30, 2013  
Ref #: 158590  
Bulk: 924084

## TECHNICAL DATA SHEET

**LOCTITE**

**SUPER GLUE**  
**Ultra Liquid CONTROL®**

Henkel Corporation  
Professional and Consumer Adhesives  
Rocky Hill, CT  
Phone 1-800-624-7767  
Fax (440) 250-9661  
[www.henkel.com](http://www.henkel.com) [www.loctiteproducts.com](http://www.loctiteproducts.com)

### DESCRIPTION:

Loctite® Super Glue Ultra Liquid Control® is a user-friendly formulation designed for home use that forms strong rapid bonds between a wide range of common materials and offers improved performance in bonding materials exposed to moisture and humidity. The product provides rapid bonding to porous materials such as wood, paper, leather and fabric. Loctite® Super Glue Ultra Liquid Control® comes in a patented side-squeeze design for maximum control. It dries clear and sets without clamping. Water resistant and dishwasher safe for porcelain, plastic and wood.

### RECOMMENDED FOR:

Use for repairing figurines, costume jewelry, cameras, toys, metal car parts, wiper blades, rubber seals and O-rings. Bonds rubber, metal, wood, ceramics, leather, fabrics, cardboard, paper and hard plastics such as Plexiglas®, polycarbonate, polystyrene and PVC.

### LIMITATIONS:

- Glass, bone china, polystyrene foam, foam rubber, silicone rubber, polytetrafluoroethylene (PTFE), polyethylene, polypropylene, very soft leathers
- Glazed surfaces
- Use on repairs needing high flexibility or for gap filling applications
- Use in oven or microwave
- Exterior applications
- Bonding assemblies that will hold hot liquids

### FEATURES & BENEFITS:

Feature	Benefits
Dries transparent.....	Invisible repairs
Sets in seconds.....	No clamping required
Easy squeeze grips.....	Pinpoint accuracy, easy to use
Dishwasher safe.....	Repairs to porcelain, plastic and wood dishes and utensils that will be washed in dishwasher

### DIRECTIONS

#### Tools Typically Required:

Tissue paper

#### Safety Precautions:

Apply in a well ventilated area. Wear gloves. Avoid skin and eye contact with the glue.

#### Preparation:

Surfaces must be clean, close fitting with no gaps, dry and free from oil, wax and paint. Avoid spillages and protect work area. Lightly roughen smooth surfaces for better adhesion. Pre-fit parts to be joined. Prior to use the unopened container should be brought to ambient temperature.

#### Application:

To puncture the nozzle, screw the cap clockwise continuously into the base until the clicking sound stops. Unscrew the cap counter clockwise to open the bottle. Squeeze the red side grips for precision dispensing. Apply sparingly to one surface. Only one drop of adhesive per square inch of surface is required. Press surfaces together immediately and hold for 15-30 seconds. Do not attempt to reposition the parts. Immediately after use, clean tip with tissue and replace cap. For increased strength, leave the parts undisturbed for at least 10 minutes. Full cure in 24 hours. Note: Cure time is dependent upon temperature, humidity, porosity of surfaces and amount of adhesive applied



Item #	Package	Size
1647358	Carded Bottle	4 g
1661517		



**Clean-up:**

After cleaning, wet any tissue used for wiping off glue with water and dispose of. When cleaning up larger quantities of uncured adhesive, apply water and allow to cure and then scrape up. Note this may result in damage to the surfaces. Cured adhesive may be cut away with caution using a sharp blade, removed with acetone or with boiling water. Note: Acetone is highly flammable and may not be suitable for use on all materials, test surface first. Follow manufacturer's instructions.

**STORAGE AND DISPOSAL**

Not damaged by freezing in the unopened container. Optimal shelf life is achieved when unopened container is stored from 36°F to 46°F (2°C to 8°C). After opening it is not recommended that the product be stored cold or frozen. Once opened, the product is best stored tightly sealed in a dry location away from heat sources or sun exposure. Humidity and high temperatures may decrease shelf life. Use an approved hazardous waste facility for disposal.

**LABEL PRECAUTIONS**

**WARNING: BONDS SKIN IN SECONDS. IRRITANT.** Contains Cyanoacrylate. Can cause severe eye injury. Bonds skin instantly. May cause allergic skin reaction. Skin contact may cause burns. Use in a well ventilated area. Avoid contact with skin and eyes. **FIRST AID:** In case of eye contact, flush with water for 15 minutes; call a physician. For skin contact, flush with water. For ingestion, do not induce vomiting; call a physician. If spilled on clothing, flush with large quantities of water. **KEEP OUT OF THE REACH OF CHILDREN.**

Refer to the Material Safety Data Sheet (MSDS) for further information

**DISCLAIMER**

The information and recommendations contained herein are based on our research and are believed to be accurate, but no warranty, express or implied, is made or should be inferred. Purchasers should test the products to determine acceptable quality and suitability for their own intended use. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

**TECHNICAL DATA**

Typical Uncured Physical Properties		Typical Application Properties	
<u>Color:</u>	Transparent colorless to straw colored	<u>Application Temperature:</u>	Do not apply below 50°F (10°C)
<u>Appearance:</u>	Liquid	<u>Odor:</u>	Sharp, irritating (use in a well-ventilated area)
<u>Base:</u>	Ethyl Cyanoacrylate	<u>Fixture Time:</u>	15-30 seconds
<u>Specific Gravity:</u>	1.05	<u>Handling Time:</u>	Leave undisturbed for at least 10 minutes. For best results, allow full bond strength to develop overnight before handling.
<u>Flashpoint:</u>	176°F – 200°F (80 - 93.4°C)	<u>Cure Time:</u>	24 hours
<u>VOC Content:</u>	<2% by weight (<20 g/L)		
<u>Shelf Life:</u>	From date of manufacture (unopened)		Note: Cure time is dependent upon temperature, humidity, porosity of surfaces bonded and amount of adhesive used
	Stored at 36-46°F: 18 months		
	Stored at 68°F: 30 months		
<u>Lot Code Explanation:</u>	YDDDDXX Y = Last Digit of Year of Manufacture DDD = Day of Manufacture based on 365 days in a year XX = Disregard		
(Lot code printed on bottom of bottle)	For example: 3061 = 61 <sup>st</sup> day of 2013 = March 2, 2013		

**Typical Cured Performance Properties**

<u>Color:</u>	Transparent
<u>Cured Form:</u>	Non-flammable, hard, brittle solid
<u>Service Temperature:</u>	Up to 180°F (82°C)
<u>Water Resistance:</u>	Yes. Conforms to EN204 D3 Water Resistance Standard.
<u>Tensile Shear Strength (ISO 4587):</u>	1450 to 2900 psi (10 to 20 N/mm <sup>2</sup> ) in 12 to 24 hours, depending on the substrate



Revision Number: 001.0

Issue date: 09/18/2014

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product name:** Loctite® Liquid Super Glue  
**Product type:** Cyanoacrylate

**IDH number:** 230992  
**Item number:** 21309  
**Region:** United States

**Company address:**  
Henkel Corporation  
One Henkel Way  
Rocky Hill, Connecticut 06067

**Contact information:**  
Telephone: 800.624.7767  
MEDICAL EMERGENCY Phone: Poison Control Center  
1-877-671-4608 (toll free) or 1-303-592-1711  
TRANSPORT EMERGENCY Phone: CHEMTREC  
1-800-424-9300 (toll free) or 1-703-527-3887  
Internet: www.henkelna.com

**2. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

**Physical state:** liquid  
**Color:** colourless  
**Odor:** irritating

**HMIS:**

**HEALTH:** 2  
**FLAMMABILITY:** 2  
**PHYSICAL HAZARD:** 1  
**Personal Protection:** See MSDS Section 8

**WARNING:** BONDS SKIN IN SECONDS.  
MAY CAUSE EYE AND RESPIRATORY TRACT IRRITATION.  
COMBUSTIBLE LIQUID AND VAPOR.

**Relevant routes of exposure:** Skin, Inhalation, Eyes

**Potential Health Effects**

**Inhalation:** Exposure to vapors above the established exposure limit results in respiratory irritation, which may lead to difficulty in breathing and tightness in the chest.

**Skin contact:** Bonds skin in seconds. May cause skin irritation. Cyanoacrylates have been reported to cause allergic reaction but due to rapid polymerization at the skin surface, an allergic response is rare. Cyanoacrylates generate heat on solidification. In rare circumstances a large drop will burn the skin. Cured adhesive does not present a health hazard even if bonded to the skin.

**Eye contact:** Irritating to eyes. Causes excessive tearing. Eyelids may bond.

**Ingestion:** Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It is almost impossible to swallow.

**Existing conditions aggravated by exposure:** Eye, skin, and respiratory disorders.

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

See Section 11 for additional toxicological information.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Hazardous components	CAS NUMBER	%
Ethyl 2-cyanoacrylate	7085-85-0	60 - 100

## **A. FIRST AID MEASURES**

<b>Inhalation:</b>	Move to fresh air. If symptoms persist, seek medical advice.
<b>Skin contact:</b>	Do not pull bonded skin apart. Soak in warm soapy water. Gently peel apart using a blunt instrument. If skin is burned due to the rapid generation of heat by a large drop, seek medical attention. If lips are bonded, apply warm water to the lips and encourage wetting and pressure from saliva in mouth. Peel or roll lips apart. Do not pull lips apart with direct opposing force.
<b>Eye contact:</b>	Immediately flush with plenty of water for at least 15 minutes. Get medical attention. If eyelids are bonded closed, release eyelashes with warm water by covering with a wet pad. Do not force eye open. Cyanoacrylate will bond to eye protein and will cause a lachrymatory effect which will help to debond the adhesive. Keep eye covered until debonding is complete, usually within 1-3 days. Medical attention should be sought in case solid particles of polymerized cyanoacrylate trapped behind the eyelid caused abrasive damage.
<b>Ingestion:</b>	Ensure breathing passages are not obstructed. The product will polymerize rapidly and bond to the mouth making it almost impossible to swallow. Saliva will separate any solidified product in several hours. Prevent the patient from swallowing any separated mass.
<b>Notes to physician:</b>	Surgery is not necessary to separate accidentally bonded tissues. Experience has shown that bonded tissues are best treated by passive, non-surgical first aid. If rapid curing has caused thermal burns they should be treated symptomatically after adhesive is removed.

## **B. FIRE FIGHTING MEASURES**

<b>Flash point:</b>	80.0 - 93.4 °C (176°F - 200.12 °F)
<b>Autoignition temperature:</b>	485 °C (905°F)
<b>Flammable/Explosive limits - lower:</b>	Not available.
<b>Flammable/Explosive limits - upper:</b>	Not available.
<b>Extinguishing media:</b>	Dry powder, foam Carbon dioxide.
<b>Special firefighting procedures:</b>	Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).
<b>Unusual fire or explosion hazards:</b>	Not available.
<b>Hazardous combustion products:</b>	Trace amounts of toxic and/or irritating fumes may be released and the use of breathing apparatus is recommended.

## **C. ACCIDENTAL RELEASE MEASURES**

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

<b>Environmental precautions:</b>	Do not allow product to enter sewer or waterways.
<b>Clean-up methods:</b>	Do not use cloths for mopping up. Flood with water to complete polymerization and scrape off the floor. Cured material can be disposed of as non-hazardous waste.

## 7. HANDLING AND STORAGE

**Handling:**

Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of this product. Wash thoroughly after handling. Avoid contact with fabric or paper goods. Contact with these materials may cause rapid polymerization which can generate smoke and strong irritating vapors, and cause thermal burns.

**Storage:**

Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Ethyl 2-cyanoacrylate	0.2 ppm TWA	None	None	None

**Engineering controls:**

Use positive down-draft exhaust ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.

**Respiratory protection:**

Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

**Eye/face protection:**

Safety goggles or safety glasses with side shields.

**Skin protection:**

Use nitrile gloves and aprons as necessary to prevent contact. Do not use PVC, nylon or cotton.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	liquid
Color:	colourless
Odor:	irritating
Odor threshold:	1 - 2 ppm
pH:	Not available.
Vapor pressure:	< 0.2 mm hg
Boiling point/range:	> 149 °C (> 300.2 °F)
Melting point/ range:	Not available.
Vapor density:	Approximate 3
Flash point:	80.0 - 93.4 °C (176°F - 200.12 °F)
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	485 °C (905°F)
Evaporation rate:	Not available.
Solubility in water:	Polymerises in presence of water.
Partition coefficient (n-octanol/water):	Not available.
VOC content:	< 2 %; < 20 g/l (California SCAQMD Method 316B) (Estimated)

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under recommended storage conditions.

**Hazardous reactions:** Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.

**Hazardous decomposition products:** None

**Incompatible materials:** Water, Amines, Alkalis, Alcohols.

**Conditions to avoid:** Spontaneous polymerization.

## 11. TOXICOLOGICAL INFORMATION

**Acute oral product toxicity:** LD50 (rat) > 5,000 mg/kg (Estimated)

**Acute dermal product toxicity:** LD50 (rabbit) > 2,000 mg/kg (Estimated)

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Ethyl 2-cyanoacrylate	No	No	No

Hazardous components	Health Effects/Target Organs
Ethyl 2-cyanoacrylate	Irritant, Allergen, Respiratory

## 12. ECOLOGICAL INFORMATION

**Ecological information:** Not available.

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Dispose of according to Federal, State and local governmental regulations.

**Hazardous waste number:** Not a RCRA hazardous waste.

## 14. TRANSPORT INFORMATION

### U.S. Department of Transportation Ground (49 CFR)

**Proper shipping name:** Combustible liquid, n.o.s. (Ethyl cyanoacrylate)  
**Hazard class or division:** Combustible Liquid  
**Identification number:** NA 1993  
**Packing group:** III

### International Air Transportation (ICAO/IATA)

**Proper shipping name:** Aviation regulated liquid, n.o.s. (Ethyl cyanoacrylate)  
**Hazard class or division:** 9  
**Identification number:** UN 3334  
**Packing group:** III  
**Exceptions:** Primary packs containing less than 500ml are unregulated by this mode of transport and may be shipped unrestricted.  
**Exceptions:** (Not more than 500ml) Unrestricted

**Water Transportation (IMO/IMDG)**

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None

**15. REGULATORY INFORMATION****United States Regulatory Information**

<b>TSCA 8 (b) Inventory Status:</b>	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
<b>TSCA 12 (b) Export Notification:</b>	None above reporting de minimis
<b>CERCLA/SARA Section 302 EHS:</b>	Hydroquinone (CAS# 123-31-9). Boron trifluoride dihydrate (CAS# 13319-75-0). Boron trifluoride (CAS# 7637-07-2).
<b>CERCLA/SARA Section 311/312:</b>	Immediate Health, Delayed Health, Fire, Reactive
<b>CERCLA/SARA Section 313:</b>	None above reporting de minimis
<b>California Proposition 65:</b>	No California Proposition 65 listed chemicals are known to be present.

**Canada Regulatory Information**

<b>CEPA DSL/NDSL Status:</b>	Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.
<b>WHMIS hazard class:</b>	B.3, D.2.B

**16. OTHER INFORMATION**

This material safety data sheet contains changes from the previous version in sections: Reviewed SDS. Reissued with new date.

Prepared by: Donna Houston, Regulatory Affairs Specialist

**DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.



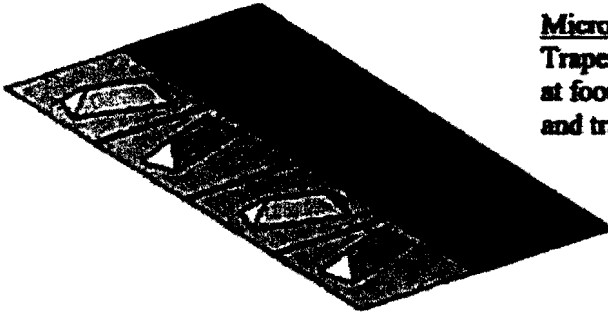
## NOT-TO-CONFIGURATION (NTC) FORM

<b>NOT-TO-CONFIGURATION (NTC)</b>		<b>NTC Number:</b> <u>567A-14-N1480</u>	
<b>PART NUMBER:</b> <u>7417613</u>	<b>PART NAME:</b> <u>MAST, LOWER ASSY</u>	<b>REV:</b> <u>G</u>	
<b>PROGRAM ENTITY:</b> <u>567ASV7</u>	<b>VEHICLE S/N:</b> <u>RMMV 9</u>	<b>DATE:</b> _____	
<b>LABOR CHARGE NUMBER:</b> <u>1Q567ASV7LBS</u>	<b>MATERIAL CHARGE NUMBER:</b> <u>1Q567ASV7LBM</u>		
<b>REF. DOCUMENTS:</b> <u>P:\Wid1\Wid1Hold\NavControl_IPT\Load_Bias\03_Presentations\RGPTT15 Load Bias\MIPT slides 20140407.pptx</u>	<b>SPR NUMBER (IF APPLICABLE):</b> <u>SPR# 16686</u>		

<b>PURPOSE OF NTC REQUEST</b> (Engineering Evaluation or Nonconformance Issue)
<b>DESCRIPTION OF NONCONFORMANCE:</b>  This NTC approves the bonding of micro vanes to the mast with Loctite Super Glue Ultra Gel Control (mfg p/n 1363589) and Loctite Super Glue Ultra Liquid Control (mfg p/n 1647358) as shown below.
<b>DESCRIPTION OF ENGINEERING EVALUATION:</b>  The flow around the RMMV Mast is susceptible to separation at or near normal operating conditions resulting in very high control torques required to maintain straight and level flight. This has been observed across the RMMV fleet. The onset of this separation produces high loads on the mast, resulting in operation at abnormal sideslip conditions, requiring excessive control forces. Engineering supplied micro vanes approximately 0.1" high, 3/4" long, and 1/8" wide will be bonded to the mast, using Loctite Super Glue Ultra Gel Control (mfg p/n 1363589) and Loctite Super Glue Ultra Liquid Control (mfg p/n 1647358), at a spacing of 10 pairs / foot, located longitudinally just upstream of the inflection point in the airfoil.  Risk Analysis for adding microvanes to the mast: No risk to vehicle. Micro vanes will reduce control torques required to maintain straight and level flight. Note that this implementation is a prototype for the four v6.0 vehicles. A tactical plan is being developed under TI-15 and will provide details for the tactical microvane configuration.  Justification for selected adhesive: <ol style="list-style-type: none"> <li>1. Initially recommended and tested by LM Aero, Ft. Worth</li> <li>2. The Loctite gel cement is viscous enough to allow in-situ installation of the vanes on a fully assembled vehicle, has adequate cure time to allow accurate installation, does not run, but sets fast enough to be efficient with the installation process, and not disturb previously installed micro vanes. This adhesive was tested against other cements with the Loctite product proving to be superior for these characteristics. The installation process will allow for liquid adhesive to be used to fill any voids remaining after the initial gel application.</li> <li>3. The bonded shear strength of &gt;1500 PSI is adequate for this application. The installation process will assure that the surface is suitably prepared for installation by using isopropyl alcohol to clean it.</li> </ol> Risk Analysis for selected adhesive: Short Term: The short term risk is low based on testing to date on RMMV 7 & 10. Microvanes (MV's) were installed on these vehicles in December 2013. RMMV 7 has not been on a mission since the MV's were installed. Two MV's were damaged during removal of the mast for v6.0 implementation. The glue is still translucent showing no signs of degradation. RMMV 10 has had 8 missions since the MV's were installed with 50 hours of submerged operation and 14 hours on the surface. No micro vanes were lost or damaged during this period. One was damaged during removal of the mast for v6.0 implementation. The glue is still translucent showing no signs of degradation.

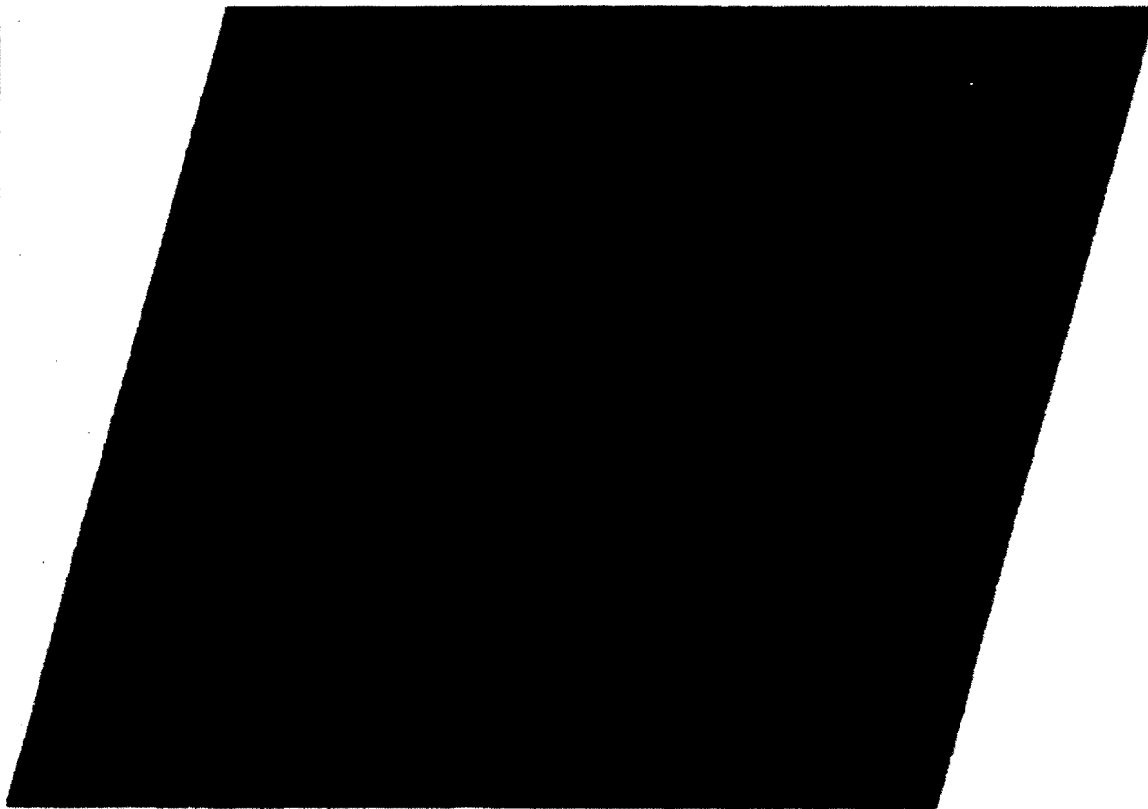
## NOT-TO-CONFIGURATION (NTC) FORM

Long Term: According to the manufacturer, this product has not been tested in a marine environment, but if degradation were to occur, it does not happen suddenly as observed by testing to date. The adhesive dries clear. If the adhesive were to degrade due to its environment it would present itself as gradual whitening and swelling caused by seawater uptake. It is recommended to perform periodic inspections at 3 month intervals looking for signs of degradation.



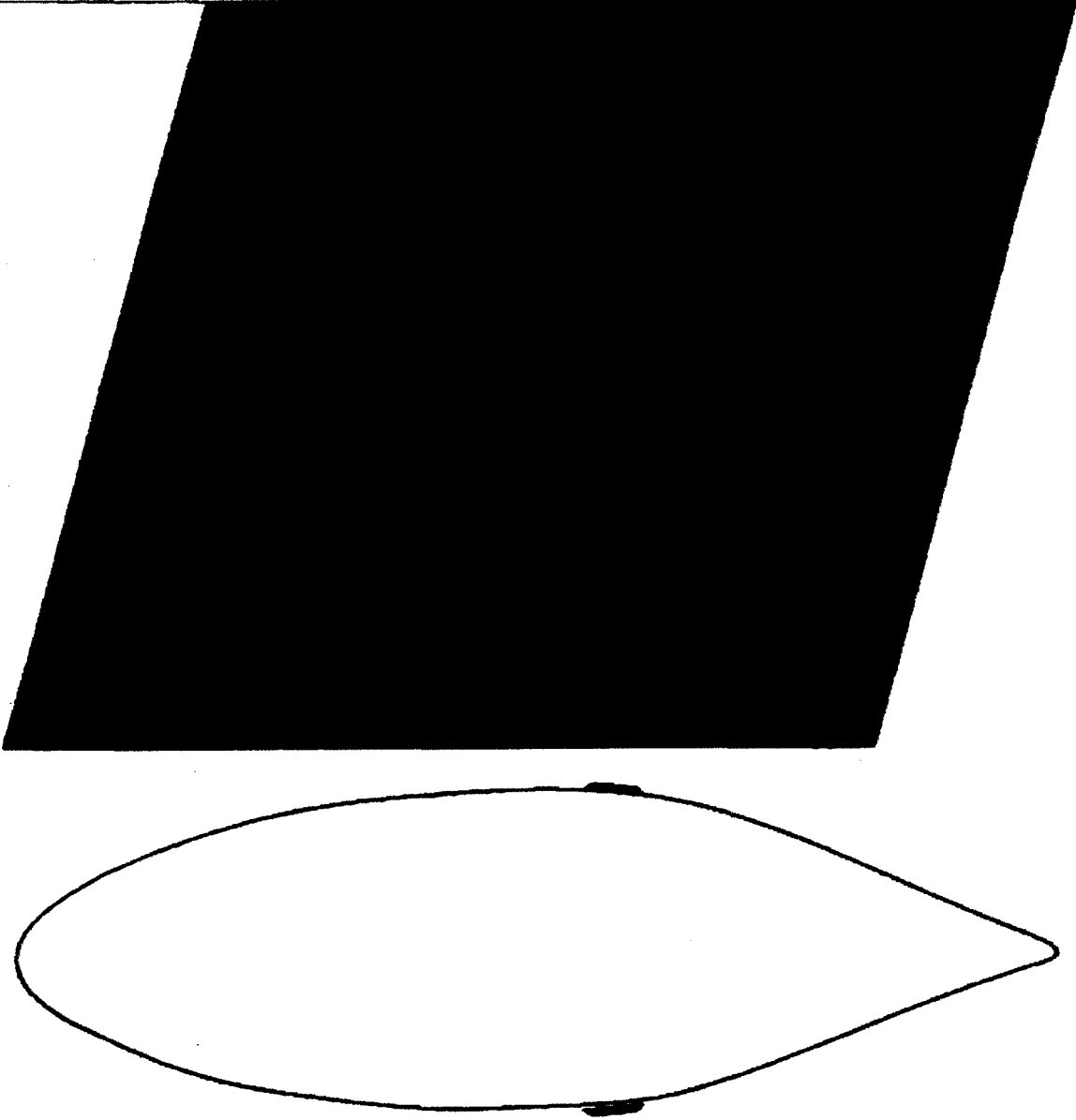
### Micro vanes

Trapezoidal in shape – rectangular  
at foot, triangular in cross section,  
and trapezoidal in side view





**NOT-TO-CONFIGURATION (NTC) FORM**



**NOTE NCM #:**

## NOT-TO-CONFIGURATION (NTC) FORM

NONCONFORMING HARDWARE TO BE INSTALLED		
QTY	PART #	PART DESCRIPTION
TBD		Micro Vanes
A/R	1363589	Loctite Super Glue Ultra Gel Control
A/R	1647358	Loctite Super Glue Ultra Liquid Control

BILL OF MATERIAL		
QTY	PART #	PART DESCRIPTION
8		Loctite Super Glue Ultra Gel Control (4g) Vendor P/N 1363589
8		Loctite Super Glue Ultra Liquid Control (4g) Vendor P/N 1647358

OPS	WORK TO BE PERFORMED
5	From Stockroom 1. Create an EWI per the NTC, 567A-14-N_____ A. Provide the NTC with the Traveler. B. Create Pick List per the NTC BOM 2. Pick and issue the contents of the BOM
10	Mech Shop 1. Ensure that the RMMV vehicle power is disabled with appropriate Lock-Out / Tag-Out applied. 2. Adhere to Shop Policies when working at elevated heights. 3. Coordinate with and support Tech Ops installing the Micro Vanes to the straight section of the Lower Mast between the base and exhaust opening with provided Loctite Super Glue per its Mig Inst and NTC 567A-14-N_____ A. Tech Ops POC is Carl Thomsen, 494-2402. B. The Micro Vanes are to be installed with 10 Pairs per Foot in a Zig Zag Pattern along the widest cross-section, both Port and Starboard. C. See attached Installation Guide.
9800	Inspection 1. Inspect the installed Micro Vanes per NTC 567A-14-N_____.
9885	To Stockroom 1. Close this EWL. 2. Issue the installed parts to

INITIAL APPROVAL BY:	
	Signature                      Date
RESPONSIBLE ENGINEER (RE):	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center; flex-grow: 1;"> </div> <div style="text-align: center; flex-grow: 1;"> <div style="border-bottom: 1px solid black; width: 100%;"></div> <div style="text-align: right; margin-top: -10px;">7/22/14</div> </div> </div>
PROJECT ENGINEER (EPM):	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center; flex-grow: 1;"> </div> <div style="text-align: center; flex-grow: 1;"> <div style="border-bottom: 1px solid black; width: 100%;"></div> <div style="text-align: right; margin-top: -10px;">7/22/14</div> </div> </div>
MANUFACTURING PROGRAM MANAGER(MPM):	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center; flex-grow: 1;"> </div> <div style="text-align: center; flex-grow: 1;"> <div style="border-bottom: 1px solid black; width: 100%;"></div> <div style="text-align: right; margin-top: -10px;">7/24/14</div> </div> </div>
QUALITY ENGINEER (QE):	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center; flex-grow: 1;"> </div> <div style="text-align: center; flex-grow: 1;"> <div style="border-bottom: 1px solid black; width: 100%;"></div> <div style="text-align: right; margin-top: -10px;">7/23/14</div> </div> </div>
CUSTOMER APPROVAL:	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center; flex-grow: 1;"> <div style="border-bottom: 1px solid black; width: 100%;"></div> </div> <div style="text-align: center; flex-grow: 1;"> <div style="border-bottom: 1px solid black; width: 100%;"></div> </div> </div>

## NOT-TO-CONFIGURATION (NTC) FORM

### ACTION TO CLOSE (CHECK ONE)

REWORK TO TDP ☐ Rework Order # \_\_\_\_\_  
TDP CHANGE ☐ FUNDED? ☐ DATE: \_\_\_\_\_ NOR# \_\_\_\_\_  
QA INSPECTION ☐ LOCATION: \_\_\_\_\_  
CUSTOMER APPROVAL OF DEVIATION ☒ X  
OTHER ☐ DESCRIPTION OF OTHER ACTION: \_\_\_\_\_

### ACTION REQUIRED (CHECK ONE)

NO WORK ORDER NEEDED (PRE-EXISTING CONDITION) ☐  
WORK ORDER GENERATED BY NCM ☐ WORK ORDER # \_\_\_\_\_  
NEW/MODIFICATION OF WORK ORDER REQUIRED ☒ X WORK ORDER # \_\_\_\_\_

### NTC CLOSURE:

MISSION SUCCESS: \_\_\_\_\_ DATE: \_\_\_\_\_

### SUPPORTING DOCUMENTATION:

(I.E. WORK ORDER AND/OR DOCUMENTATION THAT CONFIRMS APPROVED VEHICLE CONFIGURATION)

## Prototype Microvane Installation Guide

- 1) The microvanes should be installed with the mast in the lowered secure position.
- 2) Wipe clean the bottom surface of each microvane with Isopropyl Alcohol.
- 3) The microvanes will be installed on both sides of the straight section of lower mast from the base to exhaust opening. Wipe clean these regions with Isopropyl alcohol .
- 4) Mark a line (pencil) parallel to mast trailing edge, 17 cm from trailing edge. This should place the edge of the microvane approximately 18 cm from the leading edge. Verify this distance by placing the template over the microvanes previously installed on RMMV 7 or 10 and measuring from the mast trailing edge to the top edge of the template.
- 5) Tape top edge of template to align with line.
- 6) Orient the template such that when the mast is in the fully raised position the microvane pairs form a V as shown in Figure 1.
- 7) Apply Loctite Super Glue Ultra Gel Control (4g) Vendor P/N 1363580 to cleaned bottom surface and place MV in cutout template slot.
- 8) After glue dries fill any voids between mast and MV base with Loctite Super Glue Ultra Liquid Control (4g) Vendor P/N 1647358.
- 9) Move template over for next section overlapping last pair of MV's to assure correct orientation and alignment.
- 10) Clean up.
- 11) Perform final inspection to assure no microvanes are loose and all are oriented correctly.

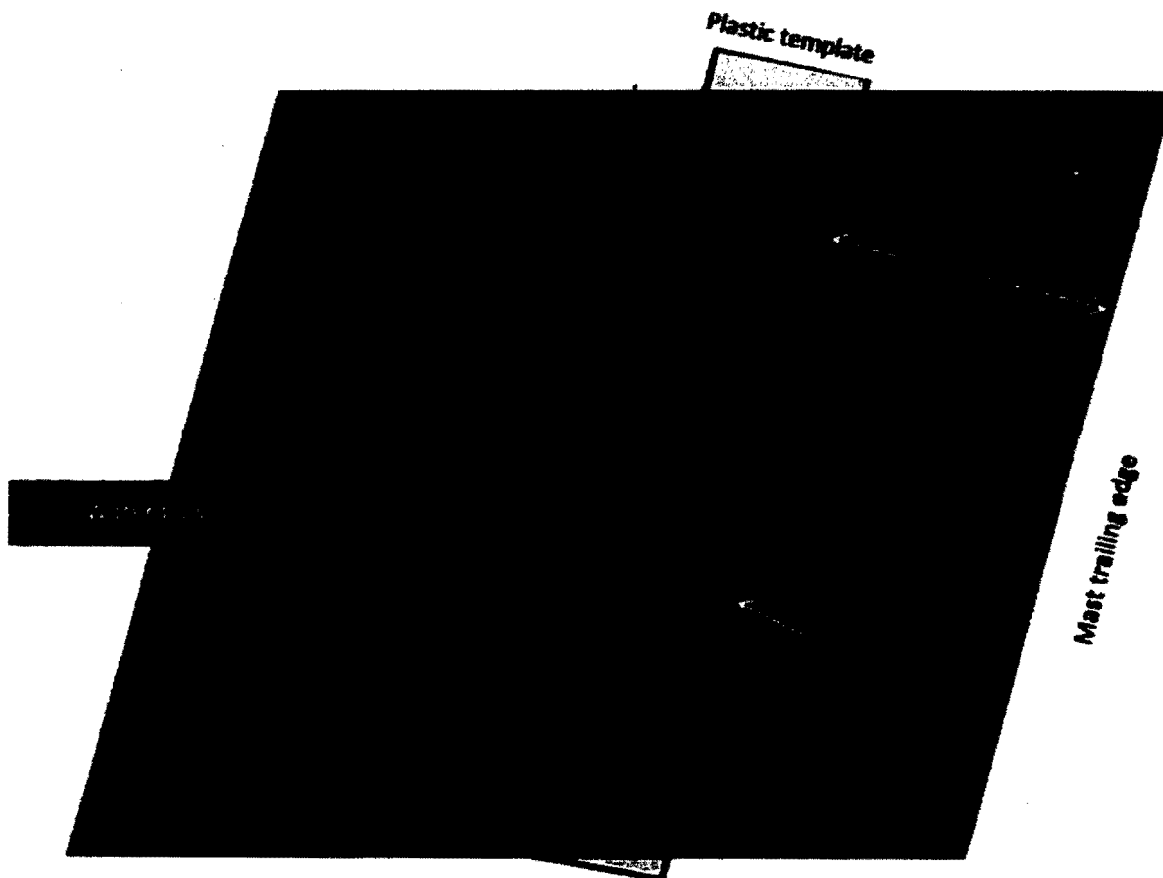


Figure 1

**From:** Beckerman, Jonathan E  
**To:** Loring, Andrew J; Hawley, Paul  
**Cc:** Long, A; Bowers, Matthew; Moyer, Connie S; Norman, Steven  
**Subject:** FW: NTC RMMV 9 Microvane Install  
**Date:** Wednesday, July 23, 2014 3:06:33 PM  
**Attachments:** NTC RMMV 9 Microvanes.pdf

---

AJ, Paul,  
Please log & distribute this approved NTC.

Thank you,

Jon  
Ph: 561-494-2597

-----Original Message-----

**From:** McInnes, Caitlin CIV PEO LCS, PMS 403 [mailto:caitlin.mcinnnes@navy.mil]  
**Sent:** Wednesday, July 23, 2014 2:58 PM  
**To:** Bates, Lawrence J CIV PORTS, 206; Shah, Shreyansh K CIV PEO LCS, PMS 403; Radvansky, Charles S CIV NAVSEA HQ, SEA 05; Beckerman, Jonathan E  
**Cc:** Dave Dillinger; Dillinger, David (N-ENGILITY CORPORATION); Arteiro, Jose C (N-Navy); Arteiro, Jose C CIV NUWC NWPT; Arteiro, Jose  
**Subject:** EXTERNAL: RE: NTC RMMV 9 Microvane Install

NTC Approved for RMMV 9.

V/r  
Cait

-----Original Message-----

**From:** Bates, Lawrence J CIV PORTS, 206  
**Sent:** Wednesday, July 23, 2014 2:56 PM  
**To:** McInnes, Caitlin CIV PEO LCS, PMS 403; Shah, Shreyansh K CIV PEO LCS, PMS 403; Radvansky, Charles S CIV NAVSEA HQ, SEA 05  
**Cc:** Dave Dillinger; Dillinger, David (N-ENGILITY CORPORATION); Arteiro, Jose C (N-Navy); Arteiro, Jose C CIV NUWC NWPT; Arteiro, Jose  
**Subject:** RE: NTC RMMV 9 Microvane Install

Jose; Concur on subject NTC.

VR  
Larry

-----Original Message-----

**From:** Beckerman, Jonathan E [mailto:jonathan.e.beckerman@lmco.com]  
**Sent:** Wednesday, July 23, 2014 2:02 PM  
**To:** McInnes, Caitlin CIV PEO LCS, PMS 403; Shah, Shreyansh K CIV PEO LCS, PMS 403  
**Cc:** Dave Dillinger; Dillinger, David (N-ENGILITY CORPORATION); Bates, Lawrence J CIV PORTS, 206; Arteiro, Jose C (N-Navy); Arteiro, Jose C CIV NUWC NWPT; Arteiro, Jose  
**Subject:** RE: NTC RMMV 9 Microvane Install

Cait, Shrey,

Attached is a revised NTC for RMMV 9 Microvances. Revisions are consistent with meeting notes from the 7/2/2014 telecon. Please review, and approve if you concur.

Jon

Ph: 561-494-2597

From: Beckerman, Jonathan E  
Sent: Tuesday, June 24, 2014 4:35 PM  
To: Arteiro, Jose C (N-Navy); Arteiro, Jose C CIV NUWC NWPT; NUWC NWPT Arteiro (jose.arteiro@autec.navy.mil)  
Cc: Dave Dillinger; Dillinger, David (N-ENGILITY CORPORATION)  
Subject: NTC RMMV 9 Microvane Install

José,

Attached is a NTC for RMMV 9 Microvane install. Please review, and approve if you concur.

Thank you,

Jon

---

Jon Beckerman  
RMMV Program Manager  
Mission Systems & Training – Palm Beach  
Lockheed Martin  
100 East 17th St  
Riviera Beach, FL 33404  
Tel: (561) 494-2597

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**Celona, Michael J CIV NAVSUP WSS, M077**

---

**From:** Celona, Michael J CIV NAVSUP WSS, M077  
**Sent:** Tuesday, February 24, 2015 7:57  
**To:** USS INDEPENDENCE (LCS-2) (aij@saltsmail.salts.navy.mil); Johannes, Douglas R CIV NSWC PCD; Jordan, Sharron Y CIV NAVSUP FLC San Diego, Code 441; Fitzgerald, Margaret M CIV NAVAIR, AVIATION/SHIP INTEGRATION; Banner-Bacin, Linda L CIV PEO LCS, PMS 403; rbeniga@stargates.com  
**Cc:** 'COMNAVAIRPAC'; 'COMNAVAIRLANT (aor@saltsmail.salts.navy.mil)'; 'COMNAVSURFLANT'; 'COMNAVSURFPAC'; Celona, Michael J CIV NAVSUP WSS, M077; Bottinelli, Jehdia CIV NAVSUP GLS; Houde, Jennifer S CIV NAVSUP WSS, M077; Hammerer, Mary Q CIV NAVAIR 6.7.1.4; Ichniowski, Matthew CIV nawcad, 6.0; Wilson, James N CIV NAVSUP FLC Norfolk, 401.2; Armacost, Andrew H CIV MSC, N46; Siebor, Adam CIV NAVSUP FLC Norfolk, 401.2; Kurylo, Timothy S CIV NSWCCD Philadelphia, 6350; Mukherjee, Sandi CIV NAVSUP WSS, M077; Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350  
**Subject:** USS INDEPENDENCE: SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR) #5234 (FINAL ANSWER)

**From:** Commander, NAVSUP Weapon Systems Support, Mechanicsburg (NWSS-M), Pa., Code N242  
**To:** Commander, USS Independence (LCS-2)

**Copy to:** Commander, Naval Surface Force, U.S. Atlantic Fleet (COMNAVSURFLANT), Code N411B  
Commander, Naval Surface Force, U.S. Pacific Fleet (COMNAVSURFPAC), Code N931  
Commander, Naval Air Force, U.S. Atlantic Fleet (COMNAVAIRLANT), Code N412A  
Commander, Naval Air Force, U.S. Pacific Fleet (COMNAVAIRPAC), Code 80

**Subj:** FORWARDING OF SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR)

**Attn:** Doug Johannes

**Ref:** (a) NAVSUP PUB P-485 SFR PROCESS  
(b) NWSS-M Point Of Contact (POC): Mike Celona, Code N242, Tel: (717) 605-8319 or DSN: 430-8319. Fax: 717-605-3480 or DSN: 430-3480  
(c) (SFR #5234) ANTISEIZE COMPOUND, (Part# 34395), NSN: 8030-01-527-6446  
(d) POC for the USS Independence (LCS-2): Doug Johannes  
(e) NSWCCD-SSES POC, Frank Iaconianni, Tel: (215) 897-7494, DSN: 430-7494

1. Per ref (a), ref (b) received ref (c) SFR from ref (d). Each SFR is reviewed and is assigned an SFR number by ref (b) and processed through the Hardware Systems Command (HSC) Technical Authorities (TA) ref (b) and (e). The following information provides the current status of your SFR.

2. Concerning SFR# 5234 per ref (e):

USS Independence (LCS-2)

Mike,

SFR 5234: The SFR requested material (NSN: 8030-01-527-6446; Antiseize Compound) is required per the MCM Mission Module O-Level HAZMAT List for LCS Systems. The NSN is already listed on the LCS Type SHML with an AOB Code of R, and restricted to the requested application. Therefore no AOB changes are necessary. The NSN was previously reviewed under SFR 4795 for the same application and authorized at the time. There is, however, no Acquisition Advice Code (AAC) for the NSN on the SHML or in the Logistics System. Recommended that Navy Interest/Use be established for this material so that it can be procured.

V/R,

Frank J. Iaconianni, Chemist  
NAVSEA Warfare Center Code 635  
Hazardous Materials Control and Management  
215-897-7494  
DSN: 443-7494  
frank.iaconianni@navy.mil

Therefore, NSN: 8030-01-527-6446 IS APPROVED FOR USE and has been updated in the Master SHML and the LCS T-SHML with an AOB code of "R" (RESTRICTED TO LCS MCM MISSION MODULE USE ONLY, BLACK, REQUEST SENT TO REINSTATE MANAGEMENT DATA 2-24-15

3. Our point of contact in the Asset Protection-Pollution Prevention and PHS&T Division is Mr. Mike Celona, Code N242, DSN: 430-8319 or (717) 605-8319. Fax: DSN 430-3480 or (717) 605-3480.



**Celona, Michael J CIV NAVSUP WSS, M077**

**From:** Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350  
**Sent:** Friday, February 20, 2015 10:56  
**To:** Celona, Michael J CIV NAVSUP WSS, M077; Stanko, Scott CIV NAVSUP WSS, M077  
**Cc:** He, Marianne C CIV NSWCCD Philadelphia, 6350; Shull-Archer, Karen E CIV NSWCCD Philadelphia, Code 635; Klimas, Robert R CIV NSWCCD Philadelphia, 6350; Stewart, Robert J CIV NSWCCD Philadelphia, 6350  
**Subject:** RE: SFR 5234 - update  
**Signed By:** frank.iaconianni@navy.mil

USS Independence (LCS-2)

Mike,

SFR 5234: The SFR requested material (NSN: 8030-01-527-6446: Antiseize Compound) is required per the MCM Mission Module O-Level HAZMAT List for LCS Systems. The NSN is already listed on the LCS Type SHML with an AOB Code of R, and restricted to the requested application. Therefore no AOB changes are necessary. The NSN was previously reviewed under SFR 4795 for the same application and authorized at the time. There is, however, no Acquisition Advice Code (AAC) for the NSN on the SHML or in the Logistics System. Recommended that Navy Interest/Use be established for this material so that it can be procured.

V/R,

Frank J. Iaconianni, Chemist  
NAVSEA Warfare Center Code 635  
Hazardous Materials Control and Management  
215-897-7494  
DSN: 443-7494  
frank.iaconianni@navy.mil

*/ R.*  
*Get Management*  
*data reestablished.*  
*C/DI/H*  
*9Q LC/OT*  
*(R)*

## ORIGINATOR:

NAVSUP WSS-MECHANICSBURG, PA, CODE N242, BUILDING 312, TEL: 717-605-8319, DSN: 430-8319  
FAX: 717-605-3480, DSN: 430-3480

REC'D AT NAVSUP WSS: 2/19/2015 FPO#: AP96616 - 2670 UIC#: 20127 TYCOM: SURFPAC

TO CODE:	RELEASE DATE:	INITIALS	<b>SUBJECT:</b> SHIP HAZARDOUS MATERIAL LIST (SHML FEEDBACK REPORT (SFR))  <b>SFR #</b> 5234  <b>ATTACHED FROM (SHIP):</b> USS INDEPENDENCE (LCS-2)  <b>PRODUCT NAME:</b> <i>ANTISEIZE COMPOUND</i>  <b>DATE ON SFR:</b> 2/19/2015
NAVSUP WSS	2/20/2015	MC	<b>NSN/NIIN:</b> 8030-01-527-6446 <b>CAGE:</b> 05972 <b>PART NUMBER/DRAWING/SPECIFICATION:</b> 34395 <b>SHML STATUS:</b> (NIS=Not in SHML; A=Authorized; P= Prohibited; R=Restricted; O=Obsolete; N=Not Determined) <b>R</b>
NSWCCD			<b>MSDS NUMBER:</b> (NIH=Not in HMIRS) DHKYY <b>MIP:</b> NONE <b>MRC:</b> NONE
ISEA			<b>MIP/MRC:</b> NONE <b>APL:</b> NONE <b>AEL:</b> NONE
LCM/ISEA			<b>APL/AEL:</b> 00242B807, 00242B810 <b>TECHNICAL MANUAL:</b> O-LEVEL MAINT; 20A/B SONAR MINE DETECTING SET SE300-AM-MMO-010
NAVSUP WSS			<b>AIRCRAFT APPLICATIONS:</b> NO  <i>C/BI/H</i>
<b>RELATED SFR's:</b> 4795 <i>For: MGT DATA          Maint. action sent out separate correspondence on 2-24-15.</i>			<b>NOTES:</b> <del>SAV6/B</del> 8 OUNCE BRUSH-TOP BOTTLE. \$21.85 EACH. <i>updated MSDS obtained, NEW TDS CODES ARE AS FOLLOWS</i> 12 EACH PER CASE. NO MAINTENANCE DATA. NO NAVY USE. WITHOUT MFG. LABEL, MAINTENANCE ACTION CANNOT BE ACCOMPLISHED TO RE-ESTABLISH NAVY USE.

**RECEIVED**  
FEB 19 2015  
BY: SFR5234

# SHIP'S HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR)

Master R  
T-Shul-R

This form needs to be completed if the Hazardous Material that you want to purchase is not authorized on your T-SHML

SHIP NAME:USS Independence

HULL NUMBER:LCS-2

TYCOM: CHOOSE ONE

UIC:

Serial Number:

AIRCRAFT RELATED: ☐ Yes ☒ No**I. JUSTIFICATION**

(To include equipment/application this material is to be used on):  
Material is used aboard ship, at the Organizational level, during installation of the Remote Minehunting System Modification Kit. The compound is used on the screw threads of the ground. As a result, the screw actually serves a dual function, 1) it is one of the screws that secures the wing center to the mid section, and 2) it serves as the ground point for the towed body. This compound is called out on the drawing.

CURRENTLY USED NSN OR PRODUCT TO BE REPLACED (if applicable):

**II. TECHNICAL DATA**

MAINTENANCE INDEX PAGE (MIP) #:

MAINTENANCE REQUIREMENT CARD (MRC #:

APL OR AEL:00242B807,  
00242B810,  
00242B811

TECH MANUAL: O-LEVEL MAINTENANCE; AN/AQS- REV.002 ESTIMATED YEARLY REQUIREMENT:3  
20A/B SONAR MINE DETECTING  
SET SE300-AM-MMO-010

**III. MANUFACTURER DATA**

(If requested NSN is provided proceed to section IV)

NSN: 8030 - 01 - 527 - 6446

MANUFACTURER: 05972 LOCTITE CORP.

ITEM OR TRADE NAME: ANTISEIZE COMPOUND

PART NUMBER OR SPECIFICATION: 34395

UNIT OF ISSUE: BT

CONSUMER - 800-624-2267  
PHONE: 800 - 243 - 4874  
INDUSTRIAL - 800 - 562-8483  
860-571-5100

INDUSTRIAL 299175 NEW P/N  
UNIT OF MEASURE: 8 OZ

Loge 05972  
TICKET # 04776077  
NEW MIDS SENT TO HMIR  
DHKYY  
5/06/8  
C/B/H

**IV. ENDORSEMENTS**

REQUESTORS NAME: Douglas Johannes

RANK:

EMAIL: Douglas.r.johannes@navy.mil

DATE PREPARED:

COMMANDER OR DESIGNEE NAME:

KIM DACHELET

860-571-5445

RANK:

EMAIL:

DATE:

SIGNATURE:

MR LOREN NAUSS 860-571-2430

CO's signature denotes acceptance of all liabilities associated with the procurement and use of this non-SHML hazardous material

Electronic submission of SHML Feedback Report/s constitutes CO's approval

Mail to:

Commanding Officer, NAVSUP Weapons Systems Support  
P.O. Box 2020, Code M0772.22

**Celona, Michael J CIV NAVSUP WSS, M077**

---

**From:** Johannes, Douglas R CIV NSWC PCD  
**Sent:** Thursday, February 19, 2015 13:07  
**To:** Celona, Michael J CIV NAVSUP WSS, M077; Jordan, Sharron Y CIV NAVSUP FLC San Diego, Code 441  
**Cc:** Fitzgerald, Margaret M CIV NAVAIR, AVIATION/SHIP INTEGRATION; Banner-Bacin, Linda L CIV PEO LCS, PMS 403; rbeniga@stargates.com  
**Subject:** RE: MCM 8030-01-527-6446 Anti seize compound  
**Attachments:** Loctite\_Product\_Description Sheet.pdf; Loctite\_MSDS.pdf; SHML SFR FORM FOR FLEET USE.docx  
**Signed By:** Douglas.R.Johannes@navy.mil

Mike, I am sending this SHML SFR to identify with Navy interest so we can order and place this HAZMAT item on board the LCS to perform the O-level required maintenance IAW Technical Manual. Please let me know if there is anything else that I need to do to move forward. Thank You

Doug Johannes  
AN/AQS-20 ILSM  
Mission Package Product Support Branch (A34)  
Naval Surface Warfare Center, Panama City Division  
PH (850) 230-7927  
Douglas.r.johannes@navy.mil

**RECEIVED**  
FEB 19 2015  
BY: SFR5234

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## **Celona, Michael J CIV NAVSUP WSS, M077**

---

**From:** Celona, Michael J CIV NAVSUP WSS, M077  
**Sent:** Friday, February 20, 2015 9:29  
**To:** Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350  
**Cc:** USS INDEPENDENCE (LCS-2) (ajj@saltsmail.salts.navy.mil); Johannes, Douglas R CIV NSWCCD PCD; Jordan, Sharron Y CIV NAVSUP FLC San Diego, Code 441; Fitzgerald, Margaret M CIV NAVAIR, AVIATION/SHIP INTEGRATION; Banner-Bacin, Linda L CIV PEO LCS, PMS 403; rbeniga@stargates.com; 'COMNAVAIRPAC'; 'COMNAVAIRLANT (aor@saltsmail.salts.navy.mil)'; 'COMNAVSURFLANT'; 'COMNAVSURFPAC'; Celona, Michael J CIV NAVSUP WSS, M077; Bottinelli, Jehdia CIV NAVSUP GLS; Houde, Jennifer S CIV NAVSUP WSS, M077; Hammerer, Mary Q CIV NAVAIR 6.7.1.4; Ichniowski, Matthew CIV nawcad, 6.0; Wilson, James N CIV NAVSUP FLC Norfolk, 401.2; Armacost, Andrew H CIV MSC, N46; Siebor, Adam CIV NAVSUP FLC Norfolk, 401.2; Kurylo, Timothy S CIV NSWCCD Philadelphia, 6350; Mukherjee, Sandi CIV NAVSUP WSS, M077  
**Subject:** USS INDEPENDENCE: SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR) #5234  
**Signed By:** mike.celona@navy.mil

**From:** Commander, NAVSUP Weapon Systems Support, Mechanicsburg (NWSS-M), Pa., Code N242  
**To:** Naval Surface Warfare Center, Carderock Division-Ships Systems Engineering Station (NSWCCD-SSES), Code 6350

**Copy to:** Commander, Naval Surface Force, U.S. Atlantic Fleet (COMNAVSURFLANT), Code N411B  
Commander, Naval Surface Force, U.S. Pacific Fleet (COMNAVSURFPAC), Code N931  
Commander, Naval Air Force, U.S. Atlantic Fleet (COMNAVAIRLANT), Code N412A  
Commander, Naval Air Force, U.S. Pacific Fleet (COMNAVAIRPAC), Code 80

**Subj:** FORWARDING OF SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR)

**Attn:** Frank Iaconianni

**Ref:** (a) NAVSUP PUB P-485 SFR PROCESS  
(b) NWSS-M Point Of Contact (POC): Mike Celona, Code N242, Tel: (717) 605-8319 or DSN: 430-8319. Fax: 717-605-3480 or DSN: 430-3480  
(c) (SFR #5234) ANTISEIZE COMPOUND, (Part# 34395), NSN: 8030-01-527-6446  
(d) POC for the USS Independence (LCS-2): Doug Johannes  
(e) NSWCCD-SSES POC, Frank Iaconianni, Tel: (215) 897-7494, DSN: 430-7494

1. Per ref (a), ref (b) received ref (c) SFR from ref (d). Each SFR is reviewed and is assigned an SFR number by ref (b) and processed through the Hardware Systems Command (HSC) Technical Authorities (TA) ref (b) and (e). The following information provides the current status of your SFR.

Ref (b) has forwarded your SFR to ref (e) for further review and analysis. Upon ref (e) recommendation, NSWCCD TA will issue an authorization decision. At that time, ref (b) will advise all POC's of the final analysis (approval/disapproval) of ref (e) review. When the results of this analysis is complete, the SHML/T-SHML will be modified by ref (b) to reflect the appropriate information on its next update.

2. Our point of contact in the Asset Protection-Pollution Prevention and PHS&T Division is Mr. Mike Celona, Code N242, DSN: 430-8319 or (717) 605-8319. Fax: DSN 430-3480 or (717) 605-3480.



**DEPARTMENT OF THE NAVY**  
**NAVSUP WEAPON SYSTEMS SUPPORT**  
700 ROBBINS AVENUE  
PHILADELPHIA PA 19111-5098

5450 CARLISLE PIKE - PO BOX 2020  
MECHANICSBURG PA 17055-0788

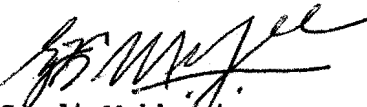
COM & FTS 717-605-8319  
DSN & EXT 430-8319  
FAX # 717-605-3480  
IN REPLY REFER TO:  
4030  
Ser N242/022  
20 February 2015

**From:** Commander, NAVSUP Weapon Systems Support, Mechanicsburg (NWSS-M),  
Pa., Code M0772  
**To:** Commanding Officer, Naval Surface Warfare Center, Carderock  
Division-Ship Systems Engineering Station (NSWCCD-SSES),  
Code 635

**Subj:** FORWARDING OF SHIPBOARD HAZARDOUS MATERIAL LIST (SHML) FEEDBACK  
REPORT (SFR)

**Encl:** (1) SHML SFR (SFR# 5234)

1. Enclosure (1) contains a packet of one (1) SFR (SFR# 5234) for your review/recommendation.
2. Our point of contact in the Asset Protection-Pollution Prevention and PHS&T Division is Mr. Mike Celona, Code 0772.23, DSN 430-8319 for (717) 605-8319. Fax: DSN 430-3480 or (717) 605-3480.

  
Sandi Mukherjee  
By Direction

## **Celona, Michael J CIV NAVSUP WSS, M077**

---

**From:** Celona, Michael J CIV NAVSUP WSS, M077  
**Sent:** Wednesday, February 25, 2015 7:49  
**To:** USS SAN ANTONIO (azf@saltsmail.salts.navy.mil); 'Hampton, Jeremy D. LSCS'; Liu, Hongli LS2  
**Cc:** 'COMNAVAIRPAC'; 'COMNAVAIRLANT (aor@saltsmail.salts.navy.mil)'; 'COMNAVSURFLANT'; 'COMNAVSURFPAC'; Celona, Michael J CIV NAVSUP WSS, M077; Bottinelli, Jehdia CIV NAVSUP GLS; Houde, Jennifer S CIV NAVSUP WSS, M077; Hammerer, Mary Q CIV NAVAIR 6.7.1.4; Ichniowski, Matthew CIV nawcad, 6.0; Wilson, James N CIV NAVSUP FLC Norfolk, 401.2; Armacost, Andrew H CIV MSC, N46; Siebor, Adam CIV NAVSUP FLC Norfolk, 401.2; Kurylo, Timothy S CIV NSWCCD Philadelphia, 6350; Mukherjee, Sandi CIV NAVSUP WSS, M077; Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350  
**Subject:** USS SAN ANTONIO: SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR) #5235 (FINAL ANSWER)  
**Signed By:** mike.celona@navy.mil

**From:** Commander, NAVSUP Weapon Systems Support, Mechanicsburg (NWSS-M), Pa., Code N242  
**To:** Commander, USS San Antonio (LPD-17)

**Copy to:** Commander, Naval Surface Force, U.S. Atlantic Fleet (COMNAVSURFLANT), Code N411B  
Commander, Naval Surface Force, U.S. Pacific Fleet (COMNAVSURFPAC), Code N931  
Commander, Naval Air Force, U.S. Atlantic Fleet (COMNAVAIRLANT), Code N412A  
Commander, Naval Air Force, U.S. Pacific Fleet (COMNAVAIRPAC), Code 80

**Subj:** FORWARDING OF SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR)

**Attn:** LSCS Jeremy D. Hampton

**Ref:** (a) NAVSUP PUB P-485 SFR PROCESS  
(b) NWSS-M Point Of Contact (POC): Mike Celona, Code N242, Tel: (717) 605-8319 or DSN: 430-8319. Fax: 717-605-3480 or DSN: 430-3480  
(c) (SFR #5235) HYDRAULIC FLUID, AUTOMATIC TRANSMISSION, (Part# MOBIL FLUID 424), NSN: 9150-01-592-8135  
(d) POC for the USS San Antonio (LPD-17): LSCS Jeremy D. Hampton  
(e) NSWCCD-SSES POC, Frank Iaconianni, Tel: (215) 897-7494, DSN: 430-7494

1. Per ref (a), ref (b) received ref (c) SFR from ref (d). Each SFR is reviewed and is assigned an SFR number by ref (b) and processed through the Hardware Systems Command (HSC) Technical Authorities (TA) ref (b) and (e). The following information provides the current status of your SFR.

2. Concerning ref (c) SFR# 5235 per ref (e):



USS San Antonio (LPD-17)

Mike,

SFR 5235: The SFR requested material (NSN: 9150-01-592-8135, Hydraulic Fluid, Automatic Transmission) is required for the requested maintenance, MRC 9TTT, which is associated with LPD-17 under MIP 5892/010. Therefore please change the AOB Code from P to R on the LPD/LSD/LCC Type SHML.

V/R,

Frank J. Iaconianni, Chemist  
NAVSEA Warfare Center Code 635  
Hazardous Materials Control and Management  
215-897-7494  
DSN: 443-7494  
frank.iaconianni@navy.mil

Therefore, NSN: 9150-01-592-8135 IS APPROVED FOR USE and has been updated in the Master SHML and the LPD/LSD/LCC T-SHML with an AOB code of "R" (RESTRICTED FOR USE ONLY IAW PMS FOR FORKLIFT ONLY).

3. Our point of contact in the Asset Protection-Pollution Prevention and PHS&T Division is Mr. Mike Celona, Code N242, DSN: 430-8319 or (717) 605-8319. Fax: DSN 430-3480 or (717) 605-3480.

**Celona, Michael J CIV NAVSUP WSS, M077**

---

**From:** Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350  
**Sent:** Friday, February 20, 2015 12:07  
**To:** Celona, Michael J CIV NAVSUP WSS, M077; Stanko, Scott CIV NAVSUP WSS, M077  
**Cc:** He, Marianne C CIV NSWCCD Philadelphia, 6350; Shull-Archer, Karen E CIV NSWCCD Philadelphia, Code 635  
**Subject:** SFR 5235  
**Signed By:** frank.iaconianni@navy.mil

USS San Antonio (LPD-17)

Mike,

*good (R) (9B) LH/LP/OT S/VG/B*

SFR 5235: The SFR requested material (NSN: 9150-01-592-8135, Hydraulic Fluid, Automatic Transmission) is required for the requested maintenance, MRC 9TTT, which is associated with LPD-17 under MIP 5892/010. Therefore please change the AOB Code from P to R on the LPD/LSD/LCC Type SHML.

V/R,

Frank J. Iaconianni, Chemist  
NAVSEA Warfare Center Code 635  
Hazardous Materials Control and Management  
215-897-7494  
DSN: 443-7494  
frank.iaconianni@navy.mil

<b>ORIGINATOR:</b> NAVSUP WSS-MECHANICSBURG, PA, CODE N242, BUILDING 312, TEL: 717-605-8319, DSN: 430-8319 FAX: 717-605-3480, DSN: 430-3480			
<b>REC'D AT NAVSUP WSS: 2/19/2015    FPO#: AE09587 - 1700    UIC#: 07207    TYCOM: SURFLANT</b>			
<b>TO CODE:</b>	<b>RELEASE DATE:</b>	<b>INITIALS</b>	<b>SUBJECT:</b> <b>SHIP HAZARDOUS MATERIAL LIST (SHML FEEDBACK REPORT (SFR))</b>  <b>SFR #</b> 5235  <b>ATTACHED FROM (SHIP):</b> USS SAN ANTONIO (LPD-17)  <b>PRODUCT NAME:</b> HYDRAULIC FLUID, AUTOMATIC TRANSMISSION  <b>DATE ON SFR:</b> 2/19/2015
<b>NAVSUP WSS</b>	<b>2/20/2015</b>	<b>MC</b>	<b>NSN/NIIN:</b> 9150-01-592-8135 <b>CAGE:</b> OTS34
<b>NSWCCD</b>			<b>PART NUMBER/DRAWING/SPECIFICATION:</b> MOBIL FLUID 424
<b>ISEA</b>			<b>SHML STATUS:</b> (NIS=Not in SHML; A=Authorized; P= Prohibited; R=Restricted; O=Obsolete; N=Not Determined) <b>P</b>
			<b>MSDS NUMBER:</b> (NIH=Not In HMIRS) DDMGW
			<b>MIP:</b> 5892
			<b>MRC:</b> 44 9TTT N
<b>LCM/ISEA</b>			<b>MIP/MRC:</b> NONE
			<b>APL:</b> NONE
			<b>AEL:</b> NONE
<b>NAVSUP WSS</b>			<b>APL/AEL:</b> NONE
			<b>TECHNICAL MANUAL:</b> NONE
			<b>AIRCRAFT APPLICATIONS:</b> NO
<b>RELATED SFR's:</b> 5066			<b>NOTES:</b> S/V6/B    5 GALLON BOX.

Current Date: 2/20/2015

**RECEIVED**  
FEB 19 2015  
BY SFR 5235

**SHIP'S HAZARDOUS MATERIALS LIST (SHML)  
FEEDBACK REPORT (SFR)**

MASTER P  
T-SHML - (P)

This form needs to be completed if the Hazardous Material  
that you want to purchase is not authorized on your T-SHML

(LPD-17)

SHIP NAME: USS SAN ANTONIO

HULL NUMBER: 17

TYCOM: COMNAVSURFFOR

UIC: 07207

Serial Number:

AIRCRAFT RELATED: ☐ Yes ☒ No

**I. JUSTIFICATION** (To include equipment/application this material is to be used on):  
MATERIAL REQUIRED MECHANICAL HANDLING SYSTEM

CURRENTLY USED NSN OR PRODUCT TO BE REPLACED (if applicable):

**II. TECHNICAL DATA**

See SFR 5066

MAINTENANCE INDEX PAGE (MIP) #: 5892

MAINTENANCE REQUIREMENT CARD (MRC #: 44 9TTT N

APL OR AEL: NA

TECH MANUAL: NA

REV.

ESTIMATED YEARLY REQUIREMENT:

**III. MANUFACTURER DATA** (If requested NSN is provided proceed to section IV)

9B NSN: 9150 - 01 - 592 - 8135

Cage # T534

MANUFACTURER: EXXON MOBIL CORP.

PHONE: - -

ITEM OR TRADE NAME: HYDRAULIC FLUID, AUTOMATIC TRANSMISSION

PART NUMBER OR SPECIFICATION: MOBIL FLUID 424

UNIT OF ISSUE: BX

UNIT OF MEASURE: 5GL

DDMGLW  
5/UG/B

**IV. ENDORSEMENTS**

REQUESTORS NAME: HONGLI LIU

RANK: LS2

EMAIL: hongli.liu@lpd17.navy.mil

DATE PREPARED: 2/19/2015

COMMANDER OR DESIGNEE NAME: PAVEENA RITTHAWORN

RANK: LT

EMAIL: suppo@lpd17.navy.mil

DATE: 2/19/2015

SIGNATURE:

CO's signature denotes acceptance of all liabilities associated with  
the procurement and use of this non-SHML hazardous material

Electronic submission of SHML Feedback Report/s constitutes CO's approval

Email to: wraps.prime.fct@navy.mil  
or

Mail to:

Commanding Officer, NAVSUP Weapon Systems Support  
P.O. Box 2020, Code N242  
5450 Carlisle Pike, Mechanicsburg PA 17055-0788  
Fax: DSN 430-3480 or COM 717-605-3480

**Celona, Michael J CIV NAVSUP WSS, M077**

---

**From:** Hampton, Jeremy D. LSCS <Jeremy.Hampton@lpd17.navy.mil>  
**Sent:** Thursday, February 19, 2015 14:38  
**To:** Celona, Michael J CIV NAVSUP WSS, M077  
**Cc:** Liu, Hongli LS2  
**Subject:** SFR REQUEST FORM  
**Attachments:** SFR.doc; Hazmat SFR.pdf; MRC1.pdf; MRC2.pdf

Mr. Celona,

SFR from USS San Antonio.

V/r  
LSCS HAMPTON

**RECEIVED**  
FEB 19 2015  
BY: SFR 5235

## **Celona, Michael J CIV NAVSUP WSS, M077**

**From:** Celona, Michael J CIV NAVSUP WSS, M077  
**Sent:** Friday, February 20, 2015 10:39  
**To:** Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350  
**Cc:** USS SAN ANTONIO (azf@saltsmail.salts.navy.mil); 'Hampton, Jeremy D. LSCS'; Liu, Hongli LS2; 'COMNAVAIRPAC'; 'COMNAVAIRLANT (aor@saltsmail.salts.navy.mil)'; 'COMNAVSURFLANT'; 'COMNAVSURFPAC'; Celona, Michael J CIV NAVSUP WSS, M077; Bottinelli, Jehdia CIV NAVSUP GLS; Houde, Jennifer S CIV NAVSUP WSS, M077; Hammerer, Mary Q CIV NAVAIR 6.7.1.4; Ichniowski, Matthew CIV nawcad, 6.0; Wilson, James N CIV NAVSUP FLC Norfolk, 401.2; Armacost, Andrew H CIV MSC, N46; Siebor, Adam CIV NAVSUP FLC Norfolk, 401.2; Kurylo, Timothy S CIV NSWCCD Philadelphia, 6350; Mukherjee, Sandi CIV NAVSUP WSS, M077  
**Subject:** USS SAN ANTONIO: SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR) #5235  
**Signed By:** mike.celona@navy.mil

**From:** Commander, NAVSUP Weapon Systems Support, Mechanicsburg (NWSS-M), Pa., Code N242  
**To:** Naval Surface Warfare Center, Carderock Division-Ships Systems Engineering Station (NSWCCD-SSES), Code 6350

**Copy to:** Commander, Naval Surface Force, U.S. Atlantic Fleet (COMNAVSURFLANT), Code N411B  
Commander, Naval Surface Force, U.S. Pacific Fleet (COMNAVSURFPAC), Code N931  
Commander, Naval Air Force, U.S. Atlantic Fleet (COMNAVAIRLANT), Code N412A  
Commander, Naval Air Force, U.S. Pacific Fleet (COMNAVAIRPAC), Code 80

**Subj:** FORWARDING OF SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR)

**Attn:** Frank Iaconianni

**Ref:** (a) NAVSUP PUB P-485 SFR PROCESS  
(b) NWSS-M Point Of Contact (POC): Mike Celona, Code N242, Tel: (717) 605-8319 or DSN: 430-8319. Fax: 717-605-3480 or DSN: 430-3480  
(c) (SFR #5235) HYDRAULIC FLUID, AUTOMATIC TRANSMISSION, (Part# MOBIL FLUID 424), NSN: 9150-01-592-8135  
(d) POC for the USS San Antonio (LPD-17): LSCS Jeremy D. Hampton  
(e) NSWCCD-SSES POC, Frank Iaconianni, Tel: (215) 897-7494, DSN: 430-7494

1. Per ref (a), ref (b) received ref (c) SFR from ref (d). Each SFR is reviewed and is assigned an SFR number by ref (b) and processed through the Hardware Systems Command (HSC) Technical Authorities (TA) ref (b) and (e). The following information provides the current status of your SFR.

Ref (b) has forwarded your SFR to ref (e) for further review and analysis. Upon ref (e) recommendation, NSWCCD TA will issue an authorization decision. At that time, ref (b) will advise all POC's of the final analysis (approval/disapproval) of ref (e) review. When the results of this analysis is complete, the SHML/T-SHML will be modified by ref (b) to reflect the appropriate information on its next update.

2. Our point of contact in the Asset Protection-Pollution Prevention and PHS&T Division is Mr. Mike Celona, Code N242, DSN: 430-8319 or (717) 605-8319. Fax: DSN 430-3480 or (717) 605-3480.



**DEPARTMENT OF THE NAVY**

**NAVSUP WEAPON SYSTEMS SUPPORT**

700 ROBBINS AVENUE  
PHILADELPHIA PA 19111-5098

5450 CARLISLE PIKE - PO BOX 2020  
MECHANICSBURG PA 17055-0788

COM & FTS 717-605-8319  
DSN & EXT 430-8319  
FAX # 717-605-3480  
IN REPLY REFER TO:  
4030  
Ser N242/023  
20 February 2015

From: Commander, NAVSUP Weapon Systems Support, Mechanicsburg (NWSS-M),  
Pa., Code M0772  
To: Commanding Officer, Naval Surface Warfare Center, Carderock  
Division-Ship Systems Engineering Station (NSWCCD-SSS),  
Code 635  
Subj: FORWARDING OF SHIPBOARD HAZARDOUS MATERIAL LIST (SHML) FEEDBACK  
REPORT (SFR)

Encl: (1) SHML SFR (SFR# 5235)

1. Enclosure (1) contains a packet of one (1) SFR (SFR# 5235) for your review/recommendation.
2. Our point of contact in the Asset Protection-Pollution Prevention and PHS&T Division is Mr. Mike Celona, Code 0772.23, DSN 430-8319 for (717) 605-8319. Fax: DSN 430-3480 or (717) 605-3480.

  
Sandi Mukherjee  
By Direction



**Celona, Michael J CIV NAVSUP WSS, M077**

---

**From:** Celona, Michael J CIV NAVSUP WSS, M077  
**Sent:** Wednesday, March 04, 2015 16:12  
**To:** USS FREEDOM (bev@saltsmail.salts.navy.mil); Jordan, Sharron Y CIV NAVSUP FLC San Diego, Code 441; Nash, Terry E CIV COMLCSRON ONE, Advance Planner; Voss, Jody A ET1 COMLCSRON ONE, N43; Sarmiento, Joann J LSC COMLCSRON ONE, N41  
**Cc:** 'COMNAVAIRPAC'; 'COMNAVAIRLANT (aor@saltsmail.salts.navy.mil)'; 'COMNAVSURFLANT'; 'COMNAVSURFPAC'; Celona, Michael J CIV NAVSUP WSS, M077; Bottinelli, Jehdia CIV NAVSUP GLS; Houde, Jennifer S CIV NAVSUP WSS, M077; Hammerer, Mary Q CIV NAVAIR 6.7.1.4; Ichniowski, Matthew CIV nawcad, 6.0; Wilson, James N CIV NAVSUP FLC Norfolk, 401.2; Armacost, Andrew H CIV MSC, N46; Siebor, Adam CIV NAVSUP FLC Norfolk, 401.2; Kurylo, Timothy S CIV NSWCCD Philadelphia, 6350; Mukherjee, Sandi CIV NAVSUP WSS, M077; Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350; Klimas, Robert R CIV NSWCCD Philadelphia, 6350  
**Subject:** USS FREEDOM: SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR) #5236 (FINAL ANSWER)

**From:** Commander, NAVSUP Weapon Systems Support, Mechanicsburg (NWSS-M), Pa., Code N242  
**To:** Commander, USS Freedom (LCS-1)

**Copy to:** Commander, Naval Surface Force, U.S. Atlantic Fleet (COMNAVSURFLANT), Code N411B  
Commander, Naval Surface Force, U.S. Pacific Fleet (COMNAVSURFPAC), Code N931  
Commander, Naval Air Force, U.S. Atlantic Fleet (COMNAVAIRLANT), Code N412A  
Commander, Naval Air Force, U.S. Pacific Fleet (COMNAVAIRPAC), Code 80

**Subj:** FORWARDING OF SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR)

**Attn:** Terry Nash & Sharron Jordan

**Ref:** (a) NAVSUP PUB P-485 SFR PROCESS  
(b) NWSS-M Point Of Contact (POC): Mike Celona, Code N242, Tel: (717) 605-8319 or DSN: 430-8319. Fax: 717-605-3480 or DSN: 430-3480  
(c) (SFR #5236) BATTERY, STORAGE, (Part# 6ES7971-0BA00), NSN: 6140-01-512-8105  
(d) POC for the USS Freedom (LCS-1): Terry Nash & Sharron Jordan  
(e) NSWCCD-SSES POC, Frank Iaconianni, Tel: (215) 897-7494, DSN: 430-7494

1. Per ref (a), ref (b) received ref (c) SFR from ref (d). Each SFR is reviewed and is assigned an SFR number by ref (b) and processed through the Hardware Systems Command (HSC) Technical Authorities (TA) ref (b) and (e). The following information provides the current status of your SFR.

2. Concerning ref (c) SFR# 5236 per ref (e):

USS Freedom (LCS-1)

Mike,

SFR 5236: The SFR requested item (NSN: 6140-01-512-8105, Battery, Storage, SPMIG [16605]) was requested for use IAW with MIP 2521/017, MRC G3RR. The MRC specifies a different battery, NSN: 6140-01-503-7089, SPMIG [15658], and the ISEA confirmed that it is the correct battery for the application. Therefore, recommend that the requested item remain prohibited on the LCS Type SHML.

V/R,

Frank J. Iaconianni, Chemist  
NAVSEA Warfare Center Code 635  
Hazardous Materials Control and Management  
215-897-7494  
DSN: 443-7494  
frank.iaconianni@navy.mil

Therefore, NSN: 6140-01-512-8105 IS APPROVED TEMPORARILY until stock is exhausted. Once stock is exhausted, use NSN 6140-01-503-7089. Both NSN's have been updated in the Master SHML and the LCS T-SHML. For NSN 6140-01-512-8105 the Allowed On Board (AOB) code is "A" (AUTHORIZED FOR SHIPBOARD USE). For NSN 6140-01-503-7089 the AOB code is "R" (RESTRICTED).

3. Our point of contact in the Asset Protection-Pollution Prevention and PHS&T Division is Mr. Mike Celona, Code N242, DSN: 430-8319 or (717) 605-8319. Fax: DSN 430-3480 or (717) 605-3480.

**Celona, Michael J CIV NAVSUP WSS, M077**

**From:** Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350  
**Sent:** Wednesday, March 04, 2015 14:00  
**To:** Celona, Michael J CIV NAVSUP WSS, M077  
**Cc:** Stanko, Scott CIV NAVSUP WSS, M077; Shull-Archer, Karen E CIV NSWCCD Philadelphia, Code 635; He, Marianne C CIV NSWCCD Philadelphia, 6350; Klimas, Robert R CIV NSWCCD Philadelphia, 6350  
**Subject:** SFR 5236  
**Signed By:** frank.iaconianni@navy.mil

USS Freedom (LCS-1)

Mike,

*Reg (P) FOR LCS. Until stock is exhausted, AOB is A for the LCS also - per F. Iaconianni phone con w/ M Celona 3-4-15.*

SFR 5236: The SFR requested item (NSN: 6140-01-512-8105, Battery, Storage, SPMIG [16605]) was requested for use IAW with MIP 2521/017, MRC G3RR. The MRC specifies a different battery, (NSN: 6140-01-503-7089, SPMIG [15658]), and the ISEA confirmed that it is the correct battery for the application. Therefore, recommend that the requested item remain prohibited on the LCS Type SHML.

V/R,

Frank J. Iaconianni, Chemist  
NAVSEA Warfare Center Code 635  
Hazardous Materials Control and Management  
215-897-7494  
DSN: 443-7494  
frank.iaconianni@navy.mil

*use*  
*(3B) 4B (R)*  
*V/C4/H*  
*LC/OT*

<b>ORIGINATOR:</b> NAVSUP WSS-MECHANICSBURG, PA, CODE N242, BUILDING 312, TEL: 717-605-8319, DSN: 430-8319 FAX: 717-605-3480, DSN: 430-3480			
<b>REC'D AT NAVSUP WSS: 2/20/2015    FPO#: AP96601 - 0102    UIC#: 20126    TYCOM: SURFPAC</b>			
<b>TO CODE:</b>	<b>RELEASE DATE:</b>	<b>INITIALS</b>	<b>SUBJECT:            SHIP HAZARDOUS MATERIAL LIST (SHML FEEDBACK REPORT (SFR))</b>  <b>SFR # 5236</b>  <b>ATTACHED FROM (SHIP):    USS FREEDOM (LCS-1)</b>  <b>PRODUCT NAME: BATTERY, STORAGE</b>  <b>DATE ON SFR:    2/19/2015</b>
<b>NAVSUP WSS</b>	<b>2/24/2015</b>	<b>MC</b>	<b>NSN/NIIN: 6140-01-512-8105                    CAGE: 1QRQ4</b>
<b>NSWCCD</b>			<b>PART NUMBER/DRAWING/SPECIFICATION:</b> 6ES7971-0BA00
<b>ISEA</b>			<b>SHML STATUS: (NIS=Not in SHML; A=Authorized; P= Prohibited; R=Restricted; O=Obsolete; N=Not Determined)</b>  <b>P</b>
			<b>MSDS NUMBER: (NIH=Not In HMIRS)</b> CYFRZ
			<b>MIP: 2521/017</b>
			<b>MRC: G3RR</b>
<b>LCM/ISEA</b>			<b>MIP/MRC: NONE</b>
			<b>APL: NONE</b>
			<b>AEL: NONE</b>
<b>NAVSUP WSS</b>			<b>APL/AEL: 61A080063</b>
			<b>TECHNICAL MANUAL: NONE</b>
			<b>AIRCRAFT APPLICATIONS: NO</b>
<b>RELATED SFR's: NONE</b>			<b>NOTES: C/Z6/H    ONE BATTERY EACH.</b>

Current Date: 2/19/2015

**RECEIVED**  
FEB 20 2015  
BY: SFR 5236

**SHIP'S HAZARDOUS MATERIALS LIST (SHML)  
FEEDBACK REPORT (SFR)**

MASTER H  
T-SHML-(P)  
NIT

This form needs to be completed if the Hazardous Material  
that you want to purchase is not authorized on your T-SHML

SHIP NAME: USS FREDOOM

HULL NUMBER: LCS1

TYCOM: CHOOSE ONE

UIC: 20126

Serial Number:

AIRCRAFT RELATED: ☐ Yes ☒ No

**I. JUSTIFICATION** (To include equipment/application this material is to be used on):

Batteries failed causing equipment to not operate.

CURRENTLY USED NSN OR PRODUCT TO BE REPLACED (if applicable): N/A

**II. TECHNICAL DATA**

MAINTENANCE INDEX PAGE (MIP) #: 2521/017.

MAINTENANCE REQUIREMENT CARD (MRC #: G3RR

APL OR AEL: 61A080063

TECH MANUAL: No tech manual for this REV.  
equipment. New equipment  
install logistics to follow.

ESTIMATED YEARLY REQUIREMENT:

**III. MANUFACTURER DATA** (If requested NSN is provided proceed to section IV)

NSN: 6140-01-512-8105 X3

MANUFACTURER: CENTRAL CORP. OF AMERICA, INC. PHONE: 804-253-6000

ITEM OR TRADE NAME: BATTERY, STORAGE

PART NUMBER OR SPECIFICATION: 6ES7971-0BA00

UNIT OF ISSUE: ea

UNIT OF MEASURE: EA

**IV. ENDORSEMENTS**

REQUESTORS NAME: Terry nash

RANK: GS-12

EMAIL: Terry.nash@navy.mil

DATE PREPARED: 19 Feb 2015

COMMANDER OR DESIGNEE NAME: Randy Garner

RANK: Captain

EMAIL: Randy.garner@navy.mil

DATE: 19 February 2015

SIGNATURE:

CO's signature denotes acceptance of all liabilities associated with  
the procurement and use of this non-SHML hazardous material

Electronic submission of SHML Feedback Report/s constitutes CO's approval

Mail to:

Commanding Officer, NAVSUP Weapons Systems Support

P.O. Box 2020, Code M0772.22

5450 Carlisle Pike, Mechanicsburg PA 17055-0788

Fax: DSN 430-3480 or COM 717-605-3480

Email: wraps.prime.fct@navy.mil

**Celona, Michael J CIV NAVSUP WSS, M077**

---

**From:** Jordan, Sharron Y CIV NAVSUP FLC San Diego, Code 441  
**Sent:** Friday, February 20, 2015 11:06  
**To:** wraps.prime.fct  
**Cc:** Nash, Terry E CIV COMLCSRON ONE, Advance Planner; Voss, Jody A ET1 COMLCSRON ONE, N43; Sarmiento, Joann J LSC COMLCSRON ONE, N41  
**Subject:** USS FREEDOM LCS-1  
**Attachments:** 2521 u-1.pdf; battery data .pdf; 6140.01.512.8105.MSDS.pdf  
**Signed By:** SHARON.JORDAN@NAVY.MIL

Thanks,

-----Original Message-----

**From:** Nash, Terry E CIV COMLCSRON ONE, Advance Planner  
**Sent:** Thursday, February 19, 2015 9:45 AM  
**To:** Jordan, Sharron Y CIV NAVSUP FLC San Diego, Code 441  
**Cc:** Panlilio, Fredito T GSEC COMLCSRON ONE, N4; Voss, Jody A ET1 COMLCSRON ONE, N43; Sarmiento, Joann J LSC COMLCSRON ONE, N41  
**Subject:** HAZMAT

Ms. Sharron

LCSRON needs to order some batteries.  
Please find required data attached.

R

Terry Nash  
LCS1 Advance Planner  
MBA, PMP  
Desk (619)556-7309

Make it repeatable  
Make it sustainable  
Simplify it

**RECEIVED**  
FEB 20 2015  
BY: SFR5236

## **Celona, Michael J CIV NAVSUP WSS, M077**

---

**From:** Celona, Michael J CIV NAVSUP WSS, M077  
**Sent:** Tuesday, February 24, 2015 9:48  
**To:** Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350  
**Cc:** USS FREEDOM (bev@saltsmail.salts.navy.mil); Jordan, Sharron Y CIV NAVSUP FLC San Diego, Code 441; Nash, Terry E CIV COMLCSRON ONE, Advance Planner; Voss, Jody A ET1 COMLCSRON ONE, N43; Sarmiento, Joann J LSC COMLCSRON ONE, N41; 'COMNAVAIRPAC'; 'COMNAVAIRLANT (aor@saltsmail.salts.navy.mil)'; 'COMNAVSURFLANT'; 'COMNAVSURFPAC'; Celona, Michael J CIV NAVSUP WSS, M077; Bottinelli, Jehdia CIV NAVSUP GLS; Houde, Jennifer S CIV NAVSUP WSS, M077; Hammerer, Mary Q CIV NAVAIR 6.7.1.4; Ichniowski, Matthew CIV nawcad, 6.0; Wilson, James N CIV NAVSUP FLC Norfolk, 401.2; Armacost, Andrew H CIV MSC, N46; Siebor, Adam CIV NAVSUP FLC Norfolk, 401.2; Kurylo, Timothy S CIV NSWCCD Philadelphia, 6350; Mukherjee, Sandi CIV NAVSUP WSS, M077  
**Subject:** USS FREEDOM: SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR) #5236

**From:** Commander, NAVSUP Weapon Systems Support, Mechanicsburg (NWSS-M), Pa., Code N242  
**To:** Naval Surface Warfare Center, Carderock Division-Ships Systems Engineering Station (NSWCCD-SSES), Code 635

**Copy to:** Commander, Naval Surface Force, U.S. Atlantic Fleet (COMNAVSURFLANT), Code N411B  
Commander, Naval Surface Force, U.S. Pacific Fleet (COMNAVSURFPAC), Code N931  
Commander, Naval Air Force, U.S. Atlantic Fleet (COMNAVAIRLANT), Code N412A  
Commander, Naval Air Force, U.S. Pacific Fleet (COMNAVAIRPAC), Code 80

**Subj:** FORWARDING OF SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR)

**Attn:** Frank Iaconianni

**Ref:** (a) NAVSUP PUB P-485 SFR PROCESS  
(b) NWSS-M Point Of Contact (POC): Mike Celona, Code N242, Tel: (717) 605-8319 or DSN: 430-8319. Fax: 717-605-3480 or DSN: 430-3480  
(c) (SFR #5236) BATTERY, STORAGE, (Part# 6ES7971-0BA00), NSN: 6140-01-512-8105  
(d) POC for the ~~USS FREEDOM~~ (LCS-1): Terry Nash & Sharron Jordan  
(e) NSWCCD-SSES POC, Frank Iaconianni, Tel: (215) 897-7494, DSN: 430-7494

1. Per ref (a), ref (b) received ref (c) SFR from ref (d). Each SFR is reviewed and is assigned an SFR number by ref (b) and processed through the Hardware Systems Command (HSC) Technical Authorities (TA) ref (b) and (e). The following information provides the current status of your SFR.

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ref (e) review. When the results of this analysis is complete, the SHML/T-SHML will be modified by ref (b) to reflect the appropriate information on its next update.

2. Our point of contact in the Asset Protection-Pollution Prevention and PHS&T Division is Mr. Mike Celona, Code N242, DSN: 430-8319 or (717) 605-8319. Fax: DSN 430-3480 or (717) 605-3480.





## DEPARTMENT OF THE NAVY

### NAVSUP WEAPON SYSTEMS SUPPORT

700 ROBBINS AVENUE  
PHILADELPHIA PA 19111-5098


5450 CARLISLE PIKE - PO BOX 2020  
MECHANICSBURG PA 17055-0788

COM & FTS 717-605-8319  
DSN & EXT 430-8319  
FAX # 717-605-3480  
IN REPLY REFER TO:  
4030  
Ser N242/025  
24 February 2015

From: Commander, NAVSUP Weapon Systems Support, Mechanicsburg (NWSS-M),  
Pa., Code M0772  
To: Commanding Officer, Naval Surface Warfare Center, Carderock  
Division-Ship Systems Engineering Station (NSWCCD-SSSES),  
Code 635  
Subj: FORWARDING OF SHIPBOARD HAZARDOUS MATERIAL LIST (SHML) FEEDBACK  
REPORT (SFR)

Encl: (1) SHML SFR (SFR# 5236)

1. Enclosure (1) contains a packet of one (1) SFR (SFR# 5236) for your review/recommendation.
2. Our point of contact in the Asset Protection-Pollution Prevention and PHS&T Division is Mr. Mike Celona, Code 0772.23, DSN 430-8319 for (717) 605-8319. Fax: DSN 430-3480 or (717) 605-3480.

  
Sandi Mukherjee  
By Direction

## **Celona, Michael J CIV NAVSUP WSS, M077**

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**From:** Celona, Michael J CIV NAVSUP WSS, M077  
**Sent:** Tuesday, March 10, 2015 9:49  
**To:** USS NEW ORLEANS (azn@saltsmail.salts.navy.mil); 'Gray, Tecara L. BM2'; Hettinger, Michael P. LT IWO; Nash, Harrison, CTRCS; Holzmann, James C. CTT1; Souksavatdy, Amphay SUPPO; Neemar, Christopher A. LSCS; HOATS, ROBERT P CIV NAVSUP FLC San Diego, Code C441; Jordan, Sharron Y CIV NAVSUP FLC San Diego, Code 441  
**Cc:** 'COMNAVAIRPAC'; 'COMNAVAIRLANT (aor@saltsmail.salts.navy.mil)'; 'COMNAVSURFLANT'; 'COMNAVSURFPAC'; Celona, Michael J CIV NAVSUP WSS, M077; Bottinelli, Jehdia CIV NAVSUP GLS; Houde, Jennifer S CIV NAVSUP WSS, M077; Hammerer, Mary Q CIV NAVAIR 6.7.1.4; Ichniowski, Matthew CIV nawcad, 6.0; Wilson, James N CIV NAVSUP FLC Norfolk, 401.2; Armacost, Andrew H CIV MSC, N46; Siebor, Adam CIV NAVSUP FLC Norfolk, 401.2; Kurylo, Timothy S CIV NSWCCD Philadelphia, 6350; Mukherjee, Sandi CIV NAVSUP WSS, M077; Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350  
**Subject:** USS NEW ORLEANS: SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR) #5237 (FINAL ANSWER)  
**Signed By:** mike.celona@navy.mil

**From:** Commander, NAVSUP Weapon Systems Support, Mechanicsburg (NWSS-M), Pa., Code N242  
**To:** Commander, USS New Orleans (LPD-18)

**Copy to:** Commander, Naval Surface Force, U.S. Atlantic Fleet (COMNAVSURFLANT), Code N411B  
Commander, Naval Surface Force, U.S. Pacific Fleet (COMNAVSURFPAC), Code N931  
Commander, Naval Air Force, U.S. Atlantic Fleet (COMNAVAIRLANT), Code N412A  
Commander, Naval Air Force, U.S. Pacific Fleet (COMNAVAIRPAC), Code 80

**Subj:** FORWARDING OF SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR)

**Attn:** BM2 Tecara L. Gray

**Ref:** (a) NAVSUP PUB P-485 SFR PROCESS  
(b) NWSS-M Point Of Contact (POC): Mike Celona, Code N242, Tel: (717) 605-8319 or DSN: 430-8319. Fax: 717-605-3480 or DSN: 430-3480  
(c) (SFR #5237) COATING, ABLATIVE RESISTANT, (Part# FLEXFRAM 605 PARTS A & B), NSN: 8030-01-353-8379  
(d) POC for the USS New Orleans (LPD-18): BM2 Tecara L. Gray  
(e) NSWCCD-SSSES POC, Frank Iaconianni, Tel: (215) 897-7494, DSN: 430-7494

1. Per ref (a), ref (b) received ref (c) SFR from ref (d). Each SFR is reviewed and is assigned an SFR number by ref (b) and processed through the Hardware Systems Command (HSC) Technical Authorities (TA) ref (b) and (e). The following information provides the current status of your SFR.

2. Concerning ref (c) SFR# 5237 per ref (e):

USS New Orleans (LPD-18)

Mike,

SFR 5237: The SFR requested item (NSN: 8030-01-353-8379; Coating, Ablative Resistant) was requested for use IAW with Drawing 7318266. Per the technical authority, Nulka Pad installation and maintenance is performed by Shipyard or AIT Personnel. Unless the requester provide information indicating that delaying the maintenance will cause unacceptable risk to personnel or mission, recommend that the requested material remain prohibited on the Master and all Type SHMLs.

V/R,

Frank J. Iaconianni, Chemist  
NAVSEA Warfare Center Code 635  
Hazardous Materials Control and Management  
215-897-7494  
DSN: 443-7494  
frank.iaconianni@navy.mil

Therefore, NSN: 8030-01-353-8379 IS NOT APPROVED for use and will remain listed in the Master SHML and all T-SHML's with an AOB code of "P" (PROHIBITED FOR SHIPBOARD USE).

3. Our point of contact in the Asset Protection-Pollution Prevention and PHS&T Division is Mr. Mike Celona, Code N242, DSN: 430-8319 or (717) 605-8319. Fax: DSN 430-3480 or (717) 605-3480.

**Celona, Michael J CIV NAVSUP WSS, M077**

---

**From:** Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350  
**Sent:** Monday, March 09, 2015 6:28  
**To:** Celona, Michael J CIV NAVSUP WSS, M077; Stanko, Scott CIV NAVSUP WSS, M077  
**Cc:** He, Marianne C CIV NSWCCD Philadelphia, 6350; Shull-Archer, Karen E CIV NSWCCD Philadelphia, Code 635  
**Subject:** SFR 5237  
**Signed By:** frank.iaconianni@navy.mil

USS New Orleans (LPD-18)

Mike,

*Rej. P*

SFR 5237: The SFR requested item (NSN: 8030-01-353-8379; Coating, Ablative Resistant) was requested for use IAW with Drawing 7318266. Per the technical authority, Nulka Pad installation and maintenance is performed by Shipyard or AIT Personnel. Unless the requester provide information indicating that delaying the maintenance will cause unacceptable risk to personnel or mission, recommend that the requested material remain prohibited on the Master and all Type SHMLs.

V/R,

Frank J. Iaconianni, Chemist  
NAVSEA Warfare Center Code 635  
Hazardous Materials Control and Management  
215-897-7494  
DSN: 443-7494  
frank.iaconianni@navy.mil

**ORIGINATOR:**

NAVSUP WSS-MECHANICSBURG, PA, CODE N242, BUILDING 312, TEL: 717-605-8319, DSN: 430-8319

FAX: 717-605-3480, DSN: 430-3480

**REC'D AT NAVSUP WSS: 2/23/2015 FPO#: AP96673 - 1701 UIC#: 23168 TYCOM: SURFPAC**

<b>TO CODE:</b>	<b>RELEASE DATE:</b>	<b>INITIALS</b>	<b>SUBJECT:</b> SHIP HAZARDOUS MATERIAL LIST (SHML FEEDBACK REPORT (SFR))  <b>SFR #</b> 5237  <b>ATTACHED FROM (SHIP):</b> USS NEW ORLEANS (LPD-18)  <b>PRODUCT NAME:</b> COATING, ABLATIVE RESISTANT  <b>DATE ON SFR:</b> 2/20/2015
<b>NAVSUP WSS</b>	2/24/2015	MC	<b>NSN/NIIN:</b> 8030-01-353-8379 <b>CAGE:</b> 62500 <b>PART NUMBER/DRAWING/SPECIFICATION:</b> FLEXFRAM 605 PARTS A & B
<b>NSWCCD</b>			<b>SHML STATUS:</b> (NIS=Not in SHML; A=Authorized; P= Prohibited; R=Restricted; O=Obsolete; N=Not Determined) <b>P</b>
<b>ISEA</b>			<b>MSDS NUMBER:</b> (NIH=Not In HMIRS) NONE
			<b>MIP:</b> NONE  <b>MRC:</b> NONE
<b>LCM/ISEA</b>			<b>MIP/MRC:</b> NONE
			<b>APL:</b> NONE
			<b>AEL:</b> NONE
<b>NAVSUP WSS</b>			<b>APL/AEL:</b> NONE
			<b>TECHNICAL MANUAL:</b> NONE
			<b>AIRCRAFT APPLICATIONS:</b> NO
<b>RELATED SFR's:</b> NONE			<b>NOTES:</b> 5/T6/A 2 GALLON KIT. 1 GL FLEXFRAM 605 PART A, 5/T6/A 1 GL FLEXFRAM 605 PART B, 5/T6/A

# RECEIVED SHIP'S HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR)

FEB 23 2015

BY: SFR 5237

This form needs to be completed if the Hazardous Material  
that you want to purchase is not authorized on your T-SHML

(LPD-18)

SHIP NAME: USS NEW ORLEANS

HULL NUMBER: 18

TYCOM: COMNAVSURFFOR

UIC: 23168

Serial Number: 13538379

AIRCRAFT RELATED: ☐ Yes ☒ No

## I. JUSTIFICATION (To include equipment/application this material is to be used on):

AS PER GUIDANCE UNDER THE PAINT SCHEDULE DATABASE UNDER DRAWING 7318226 FLEXFRAM 605 IS TO BE USED FOR MISSILE BLAST AREAS. THE NULKA PADS UNDER NEITHER THE LAUNCHERS ARE CONSIDERED TO BE BLAST AREA AND NEED BE PAINTED WITH FLEXFRAM 605.

CURRENTLY USED NSN OR PRODUCT TO BE REPLACED (if applicable):

## II. TECHNICAL DATA

MAINTENANCE INDEX PAGE (MIP) #:

MAINTENANCE REQUIREMENT CARD (MRC #):

APL OR AEL:

TECH MANUAL:

REV.

ESTIMATED YEARLY REQUIREMENT:

## III. MANUFACTURER DATA (If requested NSN is provided proceed to section IV)

98 NSN: 8030 - 01 - 353 - 8379

MANUFACTURER: FIBER MATERIALS INC.

PHONE: 207-282-7529

ITEM OR TRADE NAME: COATING, ABLATIVE RESISTANT

PART NUMBER OR SPECIFICATION: FLEXFRAM 605 PART A &amp; B

UNIT OF ISSUE: KT

UNIT OF MEASURE: 2GL

1GL PTA / 1GL PTA B

## IV. ENDORSEMENTS

REQUESTORS NAME: LT HETTINGER

RANK: O-3

EMAIL: hettinmp@lpd18.navy.mil

DATE PREPARED: 2/20/2015

COMMANDER OR DESIGNEE NAME: CAPT DOUG, VERISSIMO

RANK: O-6

EMAIL: verissdc@lpd18.navy.mil

DATE: 2/20/2015

SIGNATURE: 

CO's signature denotes acceptance of all liabilities associated with  
the procurement and use of this non-SHML hazardous material

Electronic submission of SHML Feedback Report/s constitutes CO's approval

Email to: wraps.prime.fct@navy.mil

or

Mail to:

Commanding Officer, NAVSUP Weapon Systems Support

P.O. Box 2020, Code N242

5450 Carlisle Pike, Mechanicsburg PA 17055-0788

Fax: DSN 430-3480 or COM 717-605-3480

**Celona, Michael J CIV NAVSUP WSS, M077**

---

**From:** Gray, Tecara L BM2 <graytl@lpd18.navy.mil>  
**Sent:** Monday, February 23, 2015 16:48  
**To:** wraps.prime.fct  
**Cc:** Heftinger, Michael P. LT IWO; Nash, Harrison, CTRCS; Holzmann, James C. CTT1; Souksavatdy, Amphay SUPPO; Neemar, Christopher A. LSCS; HOATS, ROBERT P CIV NAVSUP FLC San Diego, Code C441; Jordan, Sharron Y CIV NAVSUP FLC San Diego, Code 441  
**Subject:** SFR Request for USS New Orleans LPD18  
**Attachments:** [Untitled].pdf

**RECEIVED**  
FEB 23 2015  
BY: SFR 5237

## **Celona, Michael J CIV NAVSUP WSS, M077**

**From:** Celona, Michael J CIV NAVSUP WSS, M077  
**Sent:** Tuesday, February 24, 2015 14:07  
**To:** Iaconianni, Frank J CIV NSWCCD Philadelphia, 6350  
**Cc:** USS NEW ORLEANS (azn@saltsmail.salts.navy.mil); 'Gray, Tecara L. BM2'; Hettinger, Michael P. LT IWO; Nash, Harrison, CTRCS; Holzmman, James C. CTT1; Souksavatdy, Amphay SUPPO; Neemar, Christopher A. LSCS; HOATS, ROBERT P CIV NAVSUP FLC San Diego, Code C441; Jordan, Sharron Y CIV NAVSUP FLC San Diego, Code 441; 'COMNAVAIRPAC'; 'COMNAVAIRLANT (aor@saltsmail.salts.navy.mil)'; 'COMNAVSURFLANT'; 'COMNAVSURFPAC'; Celona, Michael J CIV NAVSUP WSS, M077; Bottinelli, Jehdia CIV NAVSUP GLS; Houde, Jennifer S CIV NAVSUP WSS, M077; Hammerer, Mary Q CIV NAVAIR 6.7.1.4; Ichniowski, Matthew CIV nawcad, 6.0; Wilson, James N CIV NAVSUP FLC Norfolk, 401.2; Armacost, Andrew H CIV MSC, N46; Siebor, Adam CIV NAVSUP FLC Norfolk, 401.2; Kurylo, Timothy S CIV NSWCCD Philadelphia, 6350; Mukherjee, Sandi CIV NAVSUP WSS, M077  
**Subject:** USS NEW ORLEANS: SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR) #5237

**From:** Commander, NAVSUP Weapon Systems Support, Mechanicsburg (NWSS-M), Pa., Code N242  
**To:** Naval Surface Warfare Center, Carderock Division-Ships Systems Engineering Station (NSWCCD-SSES), Code 635

**Copy to:** Commander, Naval Surface Force, U.S. Atlantic Fleet (COMNAVSURFLANT), Code N411B  
Commander, Naval Surface Force, U.S. Pacific Fleet (COMNAVSURFPAC), Code N931  
Commander, Naval Air Force, U.S. Atlantic Fleet (COMNAVAIRLANT), Code N412A  
Commander, Naval Air Force, U.S. Pacific Fleet (COMNAVAIRPAC), Code 80

**Subj:** FORWARDING OF SHIPBOARD HAZARDOUS MATERIALS LIST (SHML) FEEDBACK REPORT (SFR)

**Attn:** Frank Iaconianni

**Ref:** (a) NAVSUP PUB P-485 SFR PROCESS  
(b) NWSS-M Point Of Contact (POC): Mike Celona, Code N242, Tel: (717) 605-8319 or DSN: 430-8319. Fax: 717-605-3480 or DSN: 430-3480  
(c) (SFR #5237) COATING, ABLATIVE RESISTANT, (Part# FLEXFRAM 605 PARTS A & B), NSN: 8030-01-353-8379  
(d) POC for the USS New Orleans (LPD-18): BM2 Tecara L. Gray  
(e) NSWCCD-SSES POC, Frank Iaconianni, Tel: (215) 897-7494, DSN: 430-7494

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### NAVSUP WEAPON SYSTEMS SUPPORT

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5450 CARLISLE PIKE - PO BOX 2020  
MECHANICSBURG PA 17055-0788

COM & FTS 717-605-8319  
DSN & EXT 430-8319  
FAX # 717-605-3480  
IN REPLY REFER TO:  
4030

Ser N242/026  
24 February 2015

From: Commander, NAVSUP Weapon Systems Support, Mechanicsburg (NWSS-M),  
Pa., Code M0772  
To: Commanding Officer, Naval Surface Warfare Center, Carderock  
Division-Ship Systems Engineering Station (NSWCCD-SSES),  
Code 635  
Subj: FORWARDING OF SHIPBOARD HAZARDOUS MATERIAL LIST (SHML) FEEDBACK  
REPORT (SFR)

Encl: (1) SHML SFR (SFR# 5237)

1. Enclosure (1) contains a packet of one (1) SFR (SFR# 5237) for your review/recommendation.
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For

Sandi Mukherjee  
By Direction